

REPORT
OF THE
TWENTY-THIRD INDUSTRIAL EXHIBITION
MECHANICS' INSTITUTE,
SAN FRANCISCO.

DAVID KERR







REPORT
OF THE
TWENTY-THIRD
INDUSTRIAL EXHIBITION
OF THE
MECHANICS' INSTITUTE
OF
THE CITY OF SAN FRANCISCO,

HELD AT THE MECHANICS' PAVILION, FROM THE 7TH DAY OF AUGUST
TO THE 15TH DAY OF SEPTEMBER, INCLUSIVE, 1888.



SAN FRANCISCO:
P. J. THOMAS, PRINTER, 505 CLAY STREET.
1888.

❖ MECHANICS' INSTITUTE ❖

SAN FRANCISCO, CAL.

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STANDING COMMITTEES.

FINANCE,	-	-	-	STUMP, SCOTT, BASSETT
LIBRARY, ROOMS AND BUILDING,				MACDONALD, KERR, WATERHOUSE
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SPECIAL EXHIBITS,	-	-	-	KERR, HENDY, SPIERS

Ref

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REPORT OF THE BOARD OF TRUSTEES
OF THE
TWENTY-THIRD
— INDUSTRIAL EXHIBITION —
OF THE
MECHANICS' INSTITUTE, 1888.

To the Members of the Mechanics' Institute :

WE herewith respectfully present the Report of the Twenty-third Industrial Exhibition of our Society for your acceptance.

Several years ago it was predicted by some of the best friends of the Institute, that an annual recurrence of our Exhibitions was too often, and, some time, would be disastrous to its finances, as a failure would require the profits of years to make it good.

The majority of the Trustees, however, putting faith in the steady prosperity and progress of our city and State, advocated and have presented, with the assistance of our people, each year an Exhibition that we believe has been generally satisfactory, instructive, and a credit to our State and the Institute.

The pecuniary results have been highly remunerative to the Society, and their holding we believe of benefit to the State at large.

The question of offering the usual number of medals and diplomas for competitive exhibits was considered at an early date, and, finally, after consultation with many prominent exhibitors, decided in the negative, as a large majority preferred no award except the judgment of the public.

The "Institute" and "Inventor's" medals were no doubt worthily and justly awarded by the jurors to the exhibits most deserving.

The large, varied and comprehensive display of natural products from the various counties of the State was very gratifying to the management, and showed the deep interest taken in our fairs by the Boards of Trade and County producers.

Our thanks are due to the press of this city for their most liberal and invaluable aid in presenting to the public every item of interest connected with the Exposition.

A full and detailed account of all matters connected with the Exhibition will be found in the report, to which you are respectfully referred.

DAILY RECEIPTS AT THE TICKET OFFICE.

MECHANICS' INSTITUTE, October 1st, 1888.

To the President and Board of Managers of the Twenty-third Industrial Exhibition :

GENTLEMEN:—I herewith submit my report of the daily receipts at the ticket office in the Pavilion; also a detailed account of the total number of tickets sold, class of tickets, and the total receipts from that source:

1888.		DOUBLE SEASON TICKETS.	SINGLE SEASON TICKETS.	CHILDREN'S SEASON TICKETS.	ADULT SINGLE ADMISSION TICKETS.	CHILDREN'S SINGLE ADMISSION TICKETS.	AMOUNT.
August	7.....	299	70	83	186	10	\$1,925 00
"	8.....	200	39	32	343	18	1,341 00
"	9.....	187	44	36	466	43	1,364 75
"	10.....	169	37	31	603	45	1,315 25
"	11.....	276	68	49	1617	218	2,520 50
"	13.....	122	24	18	771	66	1,111 00
"	14.....	97	21	10	943	85	1,055 75
"	15.....	62	15	15	991	122	903 50
"	16.....	50	16	12	1091	88	883 50
"	17.....	41	8	8	1188	163	875 75
"	18.....	80	14	12	3513	714	2,395 00
"	20.....	34	11	3	1085	154	788 50
"	21.....	16		4	1292	167	773 75
"	22.....	13	2	2	1720	152	972 00
"	23.....	12	2	1	1446	138	825 00
"	24.....	8	4	1	1399	217	807 25
"	25.....	11	5	1	3990	904	2,292 50
"	27.....	4			1060	140	585 00
"	28.....	2	1	3	1224	131	662 25
"	29.....		1		1495	143	786 25
"	30.....	2			1529	163	815 25
"	31.....	1	1		1343	190	727 00
September	1.....	1	1		3890	907	2,179 75
"	3.....	3			1036	165	574 25
"	4.....		1		1322	135	697 75
"	5.....	2			1575	145	833 75
"	6.....	2			1523	153	809 75
"	7.....	1			1356	239	742 75
"	8.....				3295	686	1,819 00
"	10.....		1		1532	434	877 50
"	11.....				1003	96	525 50
"	12.....		1	1	1413	142	746 50
"	13.....				1524	157	801 25
"	14.....				1347	212	726 50
"	15.....				3148	404	1,675 00
TOTALS.		1,695	387	322	53,259	7,946	\$38,735 00

ACCOUNT OF TICKETS SOLD.

TWENTY-THIRD INDUSTRIAL EXHIBITION 1888.	DOUBLE SEASON \$5 00	DOUBLE SEASON TO MEMBERS \$2 50	SINGLE SEASON \$3 00	SINGLE SEASON TO MEMBERS \$1 50.	CHILD'S SEASON \$1 50	ADULT SINGLE ADMISSION 50 cts.	CHILDREN SINGLE ADMISSION 25 cts.	ADULT EXCURSION 25 cts.	CHILD EXCURSION 12½ cts.	AMOUNT.
Ticket Office.....	1695		387		322	53,259	7946			\$38,735 00
Sold to Members by Librarian.....	97	1841	26	74						5,276 50
Outside Sales.....	606		116							3,378 00
Excursion Tickets..								2740	185	708 13
Totals..	2398	1841	529	74	322	53,259	7946	2740	185	\$48,097 63
Less Commission.....										143 65
										\$47,953 9

RECAPITULATION.

2,398 Double Season Tickets @ \$5 00.....	\$11,990 00
1,841 " " " to Members @ \$2 50.....	4,602 50
529 Single " " @ \$3 00.....	1,587 00
74 " " " to Members @ \$1 50.....	111 00
322 Children's " " @ \$1 50.....	483 00
53,259 Adult Single Admission Tickets @ 50 cts.....	26,629 50
7,946 Children's " " @ 25 cts.....	1,986 50
2,740 Adult Excursion @ 25 cts.....	685 00
185 Children's " @ 12½ cts.....	23 13
	\$48,097 63
Less Commission on Outside Sales.....	143 65
	\$47,953 98

Respectfully submitted,
J. A. BAUER, Treasurer.

Report of the Finance Committee.

EXPENDITURES.

ADVERTISING—

Abend Post.....	\$ 25 00
Alta.....	149 50
Argonaut.....	10 00
Argus.....	5 00
A. O. U. W. Record.....	5 00
Bean & Patterson.....	10 00
Bulletin (Evening).....	155 80
California Architect.....	5 00
California Demokrat.....	23 00
California Fruit Grower.....	5 00
California Journal.....	5 00
California League Score Book.....	10 00
California Patron.....	5 00
California Voice.....	5 00
Call (Morning).....	227 15
Carrier Dove.....	5 00
Chronicle (S. F.).....	183 45
Commercial Record.....	5 00
Daily Report.....	97 50
De Troost (Theater Program).....	14 00
Diss, J. Wallace F.....	50 00
Dunphy, T. N. & Co. (Bill Posting).....	102 50
Elevator.....	5 00
Eureka Times.....	15 00
Examiner (Daily).....	201 80
Figaro.....	15 00
Fraternal Record.....	5 00
Golden Gate.....	5 00
Goldstein & Co.....	5 00
Hayes Valley Advertiser.....	5 00
Hebrew.....	5 00
Hebrew Observer.....	5 00
Herald of Trade.....	5 00
Hollister Free Lance.....	12 50
Hotel Gazette.....	25 00
Horn Hong (Chinese).....	5 00
Jewish Progress.....	5 00
Jewish Times.....	5 00
Journal of Commerce.....	31 00
Carried forward.....	\$1,458 20

FINANCIAL REPORT.

9

<i>Brought forward</i>	\$1,458 20
La Republica.....	5 00
La Sociedad.....	5 00
La Voce del Popolo.....	5 00
Law Journal.....	10 00
L'Elvezia.....	5 00
Le Franco-Californien....	19 00
Lumberman....	5 00
Masonic Record.....	5 00
Monitor.....	5 00
New Age.....	5 00
News Letter.....	10 00
Oakland Enquirer.....	22 50
Oakland Journal....	5 00
Oakland Morning Times....	30 00
Oakland Tribune.....	32 00
Oroville Register.....	15 00
Pacific Churchman.....	3 00
Pacific Pilote....	5 00
Pacific States Illustrated.....	5 00
Pacific, The.....	3 00
Park Programme.....	5 00
Post (Evening).....	119 50
Political Record.....	5 00
Protectionist.....	2 00
Public Opinion.....	5 00
Railway Guide.....	5 00
Railroad Gazette.....	15 00
Record of Amusements.....	7 00
Resources of California.....	10 00
Rural Press.....	15 00
Scandinavian	3 00
Sonoma Index.....	10 00
Spirit of the Times.....	20 00
Stillwell & Son (Bill Posting).....	12 00
Steinegger, Wolf & Co. (Mounting Posters)....	45 00
Theatrical Publishing Co.....	10 00
Trestle Board....	5 00
Vestrucken.....	4 00
Voz Portuguesa.....	5 00
Wasp.....	10 00
Weekly Call.....	5 00
Weekly Star.....	5 00
West End.....	3 00
Wood & Iron.....	5 00

 \$1,988 20

ART DEPARTMENT—

Butler & Haldan, Insurance.....	\$ 34 30
Callingham, W. J., Insurance.....	24 50
Cohen Habakkuk, Cartage.....	18 50
Commercial Union Assurance Co., Insurance....	24 50
Guardian Assurance Co., Insurance.....	49 00
Gump, S. & G., Decorations, Cartage, etc.....	225 00
Hutchinson & Mann, Insurance.....	24 50
Immediate Delivery Co., Cartage.....	47 75
Jacobs & Easton, Insurance.....	98 00
Lackeman, Chas., Hardware	15 35
Martin, J. R., Services as Superintendent.....	250 00
Morris & Kennedy, Cartage	8 00
Sanborn, Vail & Co., Frame and Tacks.....	3 75
Wages, Hanging Pictures, Labor, etc.....	107 50

\$930 65

BUILDING—

Boesch, Emile, Reflectors	\$ 57 30
California Wire Works, Wire Cloth	77
Crawford, A. & Co., Rope, etc.....	12 06
Dunham, Carrigan & Hayden Co., Hardware....	11 80
Lewin, R., Blacksmithing.....	18 00
McPherson, Samuel, Painting, Whitening, etc..	118 25
Miller & Hamilton, Mill Work.....	111 02
Starbird & Goldstone, Lumber	58 77
Wages, Carpenters and Laborers.....	359 50

\$747 47

COMMISSION—

On Sales of Season Tickets at Stores and Offices.

\$143 65

COUNTY EXHIBITS—

California Transfer Co., Freight and Transfer	
Charges.....	\$292 52
Freight Charges, Wells, Fargo & Co, Railroad	
and Steamship Companies.....	74 51
Gove, J. H., Preparing Report for Jurors.....	100 00
Stout, W. P., Traveling Expenses.....	448 00

\$915 03

DECORATION—

Burkes, S. S., Furnishing and putting in position	
Decoraton Wheels.....	\$260 00
Crawford, A. & Co., Rope.....	5 75

Carried forward\$265 75

<i>Brought forward</i>	\$265 75
Freisch, M., Lettering names of Counties, Painting, etc	156 50
Strauss, Levi & Co., Cloth.	333 15
Pouyal, J., Plants.....	50 00
S. F. Laundry Association, Washing.....	10 00
Thomas, F., Dyeing Cloth.....	81 00
Wages, Decorators, Sewing, etc.....	88 00

\$984 40

EXPENSES—

Allen, Mrs. S. K., Numbering Hat Room.....	\$ 5 00
American District Telegraph Co., Service.....	2 00
Andrews H., Services at Opening Exercises.....	7 50
Assistant Secretary, Sundry Expenses.....	68 90
Atlantic Brush Co., Brooms and Brushes.....	10 95
California Wire Works, Iron Cord.....	6 40
Conrad & Maxwell, Insurance on Model of Cruiser " Charleston."... ..	62 50
Corrinson, Isaac, Moving Streamers.....	2 00
Davis & Cowell, Fire Clay.....	3 50
Demiscal, Cartage on Dirt.....	22 00
Elder, R. B., Repairing Electric Apparatus.....	24 75
Fleishacker, A., Card Board.....	3 00
Grady, S., Cartage.....	3 00
Grand Opera House, Rent for Opening Exercises.	100 00
Gundlach, J. & Co., Wine.....	9 00
Haight, Robert, Cheese, Crackers, etc.....	6 44
Harrington, Cartage.....	4 00
Hopps, Geo., Petty Cash.....	3 20
Klinckner & Co., Rubber Stamp.....	13 25
Langley & Michaels, Disinfectants.....	1 11
Le Count Bros., Book.....	1 45
McCleery, J. B., Giving Billiard Exhibitions.....	80 00
McClure, P. & Sons, Hardware.....	4 80
McElearney, Jos., Cartage.....	2 00
Montague, W. W. & Co., Cups and Cuspidors...	8 85
Newman, A., Sawdust.....	2 50
Oakley, A. D., Rubber Stamp.....	1 50
Oliver H., Engraving Signatures	2 50
Pacific Bell Telephone, Rent and Service.....	59 85
Pacific Carriage Co., Hire	12 00
Payot, Upham & Co., Bands, etc..	2 35
Plum, C. M. & Co., Carpet and Linoleum.....	171 55

Carried forward.....\$707 85

<i>Brought forward</i>	\$707 85
Proll, Wm., Rent of Show Cases.....	50 00
Reddington & Co., Chloride of Lime.....	1 55
Sherman & Clay, Moving Piano for Opening Exercises.....	5 00
Seivers, J. H., Flowers for Opening Exercises ..	7 00
Singer Sewing Machine Co., Rent of Machine...	1 00
Standard Soap Co., Soap	2 25
Subscription to City Papers	5 70
Tweedale, T. S., Petty Cash	12 80
United Carriage Co., Hire	1 00
Wellington, B. F., Grass Seed.....	5 00
Will & Finck, Repairing Punches.....	1 75

\$800 90

LIGHTING—

Bush & Mallett, Gasfittings.	\$ 13 01
California Electric Light Co., Electric Light...	601 75
Day, Thos. & Co., Loan of Chandeliers.....	7 50
Pacific Gas Improvement Co., 854,900 feet Gas @ \$1.80 per M	1,538 82
Whittier, Fuller & Co., Paints, Alcohol and Glass.....	27 44

\$2,188 52

MACHINERY—

Allen, C. R., 92 112-2240 Tons Green River Coal @ \$9.00.....	\$828 45
Dow Steam Pump Works, Machine Work,	20 63
Dunham, Carrigan & Hayden Co., Machine Supplies	25 67
Paton, W. R., Painting Machinery	59 75
Garratt, W. T. & Co., Machine Work and Supplies	25 05
Hinckley, Spiers & Hayes, Machine Work and Supplies	54 68
Hillman, James, Testing Boilers.....	20 00
Holbrook, Merrill & Stetson, Repairs to Steam Pipes.....	22 25
Lewin, R., Blacksmith's Work	6 00
Manner, Chas, V., Machine Work.	69 40
Wages, Machinists and Laborers.....	500 35
Whittier, Fuller & Co., Paint and Oil.....	24 68
Woodbury Oil Co., Oil.....	27 50

\$1,684 41

MUSIC—

Chas. H. Casassu, Forty Musicians during the Exhibition.....	\$6,500 00
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PREMIUMS—

California Jewelry Co., Medals and Engraving..	\$ 201 00
Cash Awards, Farm Products.....	4,275 00
Cash Awards, Art Department.....	490 00
Murdock, C. A. & Co., Certificates.....	10 00
Southern, T. R., Engraving Certificates... ..	20 00
	<hr/>
	\$4,996 00

PRINTING—

Assistant Secretary, Petty Expenses.....	\$ 2 50
Barry, J. H., Circulars.... .	125 50
Bartling, Phillips & Stilwell, Book for Applica- tions	5 75
Barto, H., Circulars.....	99 50
Bosqui Engraving and Printing Co., Catalogues Art Department	140 00
Crocker, H. S. & Co., Colored Show Bills	160 00
Cubery, W. M. & Co., Invitations, etc., for Opening Exercises.....	23 50
Eastman, Frank, Circulars.....	4 50
Francis & Valentine, Posters.....	43 00
Galloway, Letter Sheets.....	20 50
Hughes, Ed. C., Programmes of the Music Cards, etc	39 25
McIntyre, J. B., Receipt Books, Envelopes, Cards, etc.....	52 25
Murdock, C. A. & Co., Tickets... ..	81 00
Spaulding, Geo. & Co., Cards.. ..	7 50
Sterrett, B. F., Labels, Tags, Notices, etc	21 50
Thomas, P. J., Rules, Regulations, and Premium List, and Report of the Exhibition.	470 00
	<hr/>
	\$1,296 25

SALARIES—

Wages, Superintendent, Clerks, Engineer, Fire- men, Watchmen, etc.....	\$6,665 00
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STATIONERY—

Assistant Secretary, Postage Stamps, and Cards..	\$106 41
Bancroft Company, Stationery.....	11 65
	<hr/>
	\$118 06

WATER—

Spring Valley Water Works, Water for 5 ⁵⁻⁷ Weeks @ \$100 per week.....	\$583 35
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RECAPITULATION OF EXPENSES.

Advertising.....	\$1,988 20
Art Department.....	930 65
Building.....	747 47
Commission.....	143 65
County Exhibits.....	915 03
Decoration.....	984 40
Expense.....	800 90
Lighting.....	2,188 52
Machinery.....	1,684 41
Music	6,500 00
Premiums.....	4,996 00
Printing	1,296 25
Salaries.....	6,665 00
Stationery.....	118 06
Water.....	583 35

\$30,541 89

PROFIT AND LOSS.

REVENUE—

Sale of Tickets.....	\$48,097 63
Sale of Privileges... ..	5,454 50
Sale of Catalogues.....	204 00
Sale of Old Material.....	20 00
Gas Service.....	101 00
Cancelled Insurance.....	9 40

\$53,886 53

EXPENDITURES—

As above.....	\$30,541 89
Transferred to the Mechanics' Institute.....	23,344 64

\$53,886 53

Respectfully submitted,

IRWIN C. STUMP,

A. W. SCOTT,

C. F. BASSETT,

Finance Committee.

PRELIMINARY ANNOUNCEMENT.

* Twenty-Third Industrial Exposition *

MECHANICS' INSTITUTE, SAN FRANCISCO.

THE Board of Trustees announce that the Twenty-Third Industrial Exposition of the Mechanics' Institute will open in its Grand Exhibition Building, bounded by Larkin, Hayes, Polk and Grove Streets, on Tuesday, August 7th, 1888, and will close on Saturday evening, September 15th, 1888.

The past Exhibitions held by the Institute have done more than all other means combined to illustrate the advance in inventions and mechanic arts upon this Coast.

The Mechanics' Institute of San Francisco was first organized in 1855, but it was re-incorporated in 1869, under the provisions of a liberal Act of the Legislature providing for the formation of Mechanics' Institutes, Chambers of Commerce, and kindred useful bodies. The designs and objects of the association, set forth in its articles of incorporation, are most important and useful to the commonwealth, and include the maintenance of a great and growing Library of circulation and reference, the formation of classes and delivery of Lectures for tuition, and the purchase of property and erection of buildings for any scientific, mechanical and literary purpose.

Article VI. of its Articles of Incorporation reads as follows:

“No share of Stock, nor any individual right in the property of this Association shall exist or be acquired during the existence of the Association, but the property belonging to and in the name of the Mechanics' Institute shall be held in trust by the Trustees of this Association, and never be diverted from the purpose and intention for which it is organized.”

All the profits and pecuniary results of the Exposition, Library, property and enterprises of the Mechanics' Institute inure solely to public and useful ends, and not to the private or personal benefit of any one.

The membership of the Mechanics' Institute is large, and it is supported by all classes; it is primarily an Association of Mechanics, and its exhibitions are emphatically expositions of Pacific Coast industry. During the past two years the management has greatly enlarged the scope of the Fairs, which now include comprehensive exhibits of the natural products of our soil, the fruits of husbandry, also ores, minerals and timber, and other exhibits illustrative of the natural wealth of our State and Coast.

Regarding the coming Exposition, it is the intention of the management to make every effort to surpass the success of the last few years. Everything points toward a prosperous year; a large concourse of visitors from the East is expected, and the Exposition will furnish a grand opportunity for displaying the products of our workshops and manufactories, and of advertising the capabilities of the climate and soil of this Coast, and its advantages for residence and investment.

The San Francisco and North Pacific R. R. Co., the North Pacific Coast R. R. Co., and the Pacific Coast Steamship Co. (Messrs. Goodall, Perkins & Co., Agents,) will transport exhibits free of charge, and the Southern Pacific Co. has also adopted a liberal policy regarding the Exhibitions of the Mechanics' Institute.

The Exhibition Building is complete in all its appointments.

No charge is made to exhibitors for space. Steam-power and water furnished free.

Arrangements are being made to secure art exhibits, pictures, statuary, etc., of unusual merit.

A large orchestra of skilled musicians, including solo performers, will render a grand concert each afternoon and evening during the continuance of the Exposition.

Other attractions and interesting features will be presented from time to time.

The Rules and Regulations governing the Exposition, Premium List and Applications for Space will soon be ready, and can be had, or will be sent with any further information desired, on application at the office of the Institute, 31 Post Street, San Francisco, Cal.

Board of Trustees, 1888.

P. B. CORNWALL, President

J. A. BAUER, Treasurer

C. F. BASSETT,

S. J. HENDY

GEO. H. HOPPS

D. A. MACDONALD

JOHN MALLON

DAVID KERR, Vice-President

A. W. STARBIRD, Secretary

IRVIN C. STUMP, Cor. Sec.

A. W. SCOTT

GEORGE SPAULDING

JAMES SPIERS

C. WATERHOUSE

J. H. CULVER, Assistant Secretary.

WM. P. STOUT, General Agent.

RULES AND REGULATIONS

OF THE

Twenty-Third Industrial Exhibition.

RULE I.

THE Pavilion will be opened for the reception of goods on and after Monday, July 30th.

The exhibition will open to the public on Tuesday, August 7th, and continue open from day to day (Sundays excepted) until Saturday, September 15th. Hours of admission will be from 10 A. M. to 5 P. M., and 7 to 10½ P. M., except Saturdays, when the Exhibition will close at 11 P. M.

RULE II.

Exhibits entered for competition must be in position and receipted for, and the entry tag attached, not later than Wednesday, August 8th, excepting exhibits of fresh fruit and vegetables not in season at the time of opening, or additions to varieties already on exhibition. In either case immediate notice of new additions must be handed in to the Secretary, in writing.

Articles intended by the exhibitor for competition, but not entered and in position by the time specified, to wit, Wednesday, August 8th, shall not under any circumstances be allowed to compete, except with the written consent of all the contesting exhibitors and the sanction of the Board of Trustees.

RULE III.

The driving engine will be in operation three days previous to the opening, and exhibitors of machinery in motion will be required to have their machines in running order on the opening day.

RULE IV.

No charge of any kind will be made to exhibitors for space. Steam and water will also be furnished free, in reasonable quantities; but all platforms, counters, ornamental partitions, show cases and fixtures must be erected at the expense of the exhibitors.

RULE V.

Applications for space can be made at any time, and should be made as early as possible, and at least four weeks previous to the opening of the Exhibition.

Blank forms of application for space will be furnished by the Secretary.

Space will be awarded as early as practicable after the application has been received.

Space allotted to applicants, and not taken possession of by the arrival of their goods, or otherwise, on or before Saturday, August 4th, may be assigned to other exhibitors.

The Board of Trustees reserve the right to exclude from the Exhibition all things they may deem objectionable, as nostrums, articles of an explosive, inflammable, dangerous or offensive character.

Any exhibit of goods which, in the opinion of the Board of Trustees, is of an improper or objectional character, may, at the option of said Trustees, be removed at any time.

The Board of Trustees reserve the right to refuse admission to any exhibitor or employee whom they may consider an improper person, or for other sufficient cause; and also to remove the goods of such exhibitor from the building.

RULE VI.

Exhibitors will receive from the entry clerk, on the arrival of their goods, a receipt for the same, which must be presented for their delivery at the close of the Exhibition. Articles entered for exhibition or competition must be so designated in the receipt. The receipt must designate whether exhibits are entered for competition, or for exhibition only.

RULE VII.

The Board of Trustees will endeavor to select competent and disinterested Jurors of Award.

Articles entered only for exhibition shall be so reported by the judges, and so appear in the report of the Exhibition.

All awards and recommendations of Jurors must be submitted to the Board of Trustees on or before September 10th, and receive their approval before being final.

RULE VIII.

The announcement of awards will be made by the Board of Trustees on Wednesday, September 12th.

RULE IX.

Power will be furnished for driving machinery from the main lines of shafting, which are 2 15-16 inches in diameter, and will make about 110 revolutions per minute. Driving pulleys, 30 inches in diameter, are now on the shafting for use of exhibitors. Pulleys for the main line, if furnished by exhibitors, must be accurately balanced, and have the owner's name plainly marked thereon, and should be received and placed in position by Saturday, July 28th, as, up to that time, it can be done without unnecessary labor or inconvenience.

RULE X.

No article on exhibition can be removed until the close of the Fair, unless by authority of the Board of Trustees; but reasonable facilities for making sale of articles, for delivery at the close of the Exhibition, will be afforded.

Exhibitors' cards, circulars and samples may be placed within their space for distribution, but visitors shall not be solicited to receive them.

Exhibitors will be required to keep their spaces and exhibits clean and in good order, and, in cases where they are covered at night, to remove such covering by 11 o'clock A. M., and not to cover the same earlier than ten minutes before the closing hour.

RULE XI.

The most careful means will be taken, through the agency of the police and otherwise, to guard and protect the property on exhibition, and it will be the purpose of the Trustees to return all articles to the owners without loss or injury; but as the Fair is for the benefit of the general public, and particularly for the business benefit of the exhibitors, and to add to the reputation of their wares, the Mechanics' Institute and Trustees will, under no circumstance, be responsible for any loss or injury to articles placed on exhibition, which must be invariably at *owner's risk*.

RULE XII.

In order to preserve the general harmony of the Exhibition and make the display of goods attractive, the Board of Trustees reserve the right to direct the general arrangement of the articles on exhibition, and to regulate the character of all signs and advertisements.

Partitions may be erected in various parts of the building, but in no case more than four feet in height, except on the sides and ends of the gallery. Exhibitors' signs shall not be more than eight inches in width, and placed not less than eight nor more than nine feet from the floor, except on the walls of the building; and, under no circumstances, will cloth or paper signs be allowed higher than partitions, to wit: four feet.

Exhibitors will not be allowed to give away samples of any article, the sale of which has been granted as a privilege.

RULE XIII.

Employees' tickets will be issued without charge to such exhibitors only as, in the opinion of the Committee on Privileges, require the services of an attendant, and are not transferable. If transferred or loaned, the doorkeeper is instructed not only to refuse admission but to retain the ticket, which by this violation of the rule is forfeited.

Employees' tickets found to be unnecessary for the purpose for which they were issued must be returned to the Committee.

Any ticket presented at the door for admission in violation of rules thereon shall be forfeited.

RULE XIV.

All boxes and packages containing articles for the Exhibition should be marked "Twenty-third Industrial Exhibition, San Francisco," with the name and address of the sender. If the freight thereon is paid, it will be taken charge of by the Board of Trustees and removed to the Exhibition building. Cartage at the expense of the Exhibitor. A detailed statement of each box or package should be inclosed with the same, or sent separately, by mail or express.

RULE XV.

The Mechanics' Institute offers the *Institute Gold Medal* for the best display of California-manufactured articles, and the *Inventor's Gold Medal* for the best and most useful recent Pacific Coast invention not heretofore receiving any award.

Any exhibitor desiring an examination made of his exhibit can have the same done upon notifying the Board of Trustees, in writing, of such desire, whereupon a competent committee will be appointed, and their report, suitably engrossed, will be given to the exhibitor, in addition to the usual publication in the report of the Exhibition.

RULE XVI.

Liberal cash premiums will be awarded in Class 39 (paintings in oil and water colors) for the most meritorious exhibits by local artists.

RULE XVII.

For the development of agriculture, horticulture and viticulture in this State, and to aid in advertising the great resources and natural wealth of California, liberal cash premiums, greater than any heretofore distributed on this Coast, will be awarded for County Displays and exhibits of farm and mineral products.

PREMIUM LIST.

For the best, most extensive and varied exhibit of farm products,
exclusive of live stock, by any county in the State.....\$ 1,000 00

For the second best display.....	600 00
“ third “ “	500 00
“ fourth “ “	400 00
“ fifth “ “	300 00
“ sixth “ “	200 00

In addition to the above sweeping premiums, the following schedule of
awards is also offered for *individual displays*, the sole production of the exhib-
itor, which may or may not form part of the County Displays:

GRAINS.

Best Display of Wheat in Grain and Sheaf, not less than three sheaves.....	\$30 00
Best Display of Barley in Grain and Sheaf, not less than three sheaves.....	15 00
Best Display of Oats in Grain and Sheaf, not less than three sheaves..	10 00
Best Display of Rye in Grain and Sheaf, not less than three sheaves..	10 00
Best Display of Corn in Ear and Stalk, Excellence and Variety con- sidered.....	10 00
Best Display of Hops, not less than 25 pounds.....	25 00
Best Display of Chevalier Barley, in Grain, for Brewing	20 00

FRUIT.

Best General Display of Fruit, by the Producer.....	75 00
Second Best General Display of Fruit, by Producer.....	40 00
Best Display and Variety of Apples	20 00
Second Best Display and Variety of Apples.....	15 00
Best Display and Variety of Pears.. ..	20 00
Second Best Display and Variety of Pears	15 00
Best Display and Variety of Peaches.....	20 00
Second Best Display and Variety of Peaches	15 00
Best Display and Variety of Plums.....	15 00
“ “ “ “ Prunes.....	20 00
Second Best Display and Variety of Plums or Prunes.. ..	15 00
Best Display of Citrus Fruits	50 00
Second Best Display and Variety of Citrus Fruits....	25 00

Best Display of Table Grapes, Variety and Excellence considered.....	50 00
Second Best Display of Table Grapes, Variety and Excellence considered	30 00
Best Display and Quality of Wine Grapes.....	75 00
Second Best Display and Quality of Wine Grapes.....	50 00
Best Display and Quality of Cherries.....	15 00
Second Best Display and Quality of Cherries	10 00

DRIED FRUITS.

Best Display of California Raisins.....	50 00
Second Best Display of California Raisins.	30 00
Best General Display of Dried Fruits by the Producer.....	50 00
Second Best General Display of Dried Fruits, by the Producer.....	30 00

NUTS.

Best Display of Cultivated Nuts, by the Producer, Variety and Quality considered.....	25 00
Second Best Display of Cultivated Nuts by the Producer, Variety and Quality considered.....	15 00

CANNED AND PRESERVED FRUITS.

Best Display of Canned and Preserved Fruits and Vegetables, by the Factory.....	50 00
Second Best Display of Canned and Preserved Fruits and Vegetables, by the Factory.....	30 00
Best Display of Jellies in Glass, home made.....	10 00
“ “ Jams “ “ “	10 00
“ “ Preserved Fruits in Glass, home made.....	10 00
“ “ Pickles and Sauces, by Factory.....	10 00
“ Assortment and Quality of Pickles, home made.....	10 00

VEGETABLES.

Best General Display of Vegetables, Quality and Variety Considered...	25 00
Best Display of Butter.....	25 00
“ “ Cheese.....	25 00

HONEY.

Best Display of Honey.....	15 00
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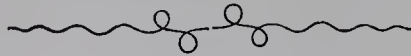
MEATS, ETC.

Best General Display of Canned and Preserved Meats.....	10 00
Best Display of Hams, Bacon and Lard.....	10 00

WOOLS AND COTTON.

Best Display of Wool, not less than four fleeces.....	25 00
“ “ Cotton, not less than 50 lbs.....	15 00
“ “ Mohair, not less than 10 lbs.....	10 00
Best samples of Olive Oil, by the Producer....	25 00
“ “ Pickled Olives.....	20 00

CLASSIFICATION OF EXHIBITS.



CLASS 1.

Steam, Gas and Hot Air Engines, Boilers, and Appliances for Generating and Transmitting Power.

CLASS 2.

Hydraulic Machinery and Appliances, including Steam Pumps.

CLASS 3.

Metal Working Machinery and Tools.

CLASS 4.

Wood Working Machinery and Appliances.

CLASS 5.

Mining Machinery and Appliances.

CLASS 6.

Agricultural Machinery and Implements, including Windmills.

CLASS 7.

Weaving Machines, Sewing Machines, Knitting Machines and Accessories..

CLASS 8.

Miscellaneous Machinery and Appliances, not included in other classification.

CLASS 9.

Iron, Steel, Lead, Copper, Brass, etc.

CLASS 10.

Cooking and Heating Apparatus and Utensils.

CLASS 11.

Hardware, Firearms, etc.

CLASS 12.

Fire and Burglar Proof Safes and Locks.

CLASS 13.

Cutlery and Edged Tools.

CLASS 14.

Grates, Marble Work, Artificial Stone Work, Earthenware, Glassware, etc.

CLASS 15.

Sheet Metal, Copper and Brass Work, Plumbers' Goods, etc.

CLASS 16.

Carpenters', Joiners', Shipbuilders' and Stairbuilders' Work, Ornamental Painting and Graining, Plaster Work, etc.

CLASS 17.

Musical Instruments.

CLASS 18.

Vehicles and Accessories.

CLASS 19.

Furniture, Upholstery, Household Decoration Applied to Rooms, etc.

CLASS 20.

Billiard Tables, Gymnastic Apparatus, etc.

CLASS 21.

Woodenware, Brushes, Wire Goods, Willow Ware, etc.

CLASS 22.

Boots, Shoes, Leather, Rubber and Leather Goods, etc.

CLASS 23.

Hemp, Cordage, Paper, Hair, etc.

CLASS 24.

Woolen, Silk and Cotton Goods, etc.

CLASS 25.

Gentlemen's Furnishing Goods, Regalias, etc.

CLASS 26.

Ladies' Furnishing Goods, including Millinery.

CLASS 27.

Tobacco, Leaf and Manufactured.

CLASS 28.

Chemical and Pharmaceutical Products.

CLASS 29.

Specimens of Mineralogy, Geology, Zoology, Botany, etc.

CLASS 30.

Groceries, Dried and Smoked Meats, and Fish, Confectionery, etc.

CLASS 31.

Wines and Brandies of California Production, from California Vineyards.

CLASS 32.

Fermented Products, Ale, Beer and Spirits.

CLASS 33.

Printing, Bookbinding, Stationery, etc.

CLASS 34.

Gold and Silver Plated Ware, Watches, Clocks, Jewelry and Bronzes.

CLASS 35.

Scientific Apparatus and Appliances.

CLASS 36.

Illuminants and Accessories, including Electricity and Electric Apparatus.

CLASS 37.

Surgical and Dental Instruments, Medical Appliances, etc.

CLASS 38.

Embroidery, Needle-work, Hair-work, Shell-work, etc.

CLASS 39.

Paintings in Oil and Water Colors.

CLASS 40.

Keramics, Art Glass Work, Statuary and Carving.

CLASS 41.

Photography, Engravings, Original Drawings, etc.

CLASS 42.

Farm Products.—Fresh, Dried and Preserved Fruits, Grain, Nuts, Vegetables, Honey, Butter, Cheese, Wool, Cotton, etc.

THE OPENING EXERCISES.



THE exercises inaugurating the opening of the Twenty-third Industrial Exposition took place at the Grand Opera House on Mission street, on the afternoon of Tuesday, August 7th, and the doors of the Pavilion were opened to the public at seven o'clock in the evening.

The following programme was prepared and the exercises conducted under the supervision of the Committee (Messrs. Starbird, Bassett and Scott) who carefully attended to all the arrangements:

Grand Overture, "Jubal."— <i>C. M. Von Weber.</i>	-	1st Infantry Band
Prayer,	- - - - -	Rev. Horatio Stebbins
Introductory Remarks by the President,	- - - - -	P. B. Cornwall
Gavotte, "The Chimes."— <i>Watson.</i>	- - - - -	By the Band
Recitation, Selected,	- - - - -	Miss Gertrude Cahalin
Selection, "An Evening in 'Frisco."— <i>Brooks.</i>	- - - - -	By the Band
Remarks	- - - - -	Mayor E. B. Pond
Vocal Solo, Selected,	- - - - -	Miss Alvina M. Heuer
Oration	- - - - -	R. S. Moore
March, "Erminie,"— <i>Jakobowski.</i>	- - - - -	By the Band

When the First Infantry Regiment Band, under the leadership of Professor Chas. H. Casassa, began the opening overture the house was filled with the friends of the Institute. Rev. Dr. Horatio Stebbins opened the exercises with prayer.

INTRODUCTORY ADDRESS.

P. B. Cornwall, President of the Mechanics' Institute, delivered the following introductory address:

"It is thirty-three years since the Mechanics' Institute was founded. Then the white population of the State was about three hundred and fifty thousand and San Francisco was a thriving young city having about fifty-two thousand residents. The business part of the city was north of California street and east of Dupont. The fashionable shopping places were on Montgomery street, between Jackson and Sacramento, and on Washington, between Montgomery and Kearny. The Tehama House on Sansome street, on the ground now occupied by the Bank of California, and the "Oriental," on the corner of Battery and Bush streets, were the fashionable hotels. The American Theatre on Sansome street, near Sacramento, and the Metropolitan Theatre, on Montgomery street, near Jackson street, were the principal places of amusement. The lot covered by the building in which you are now sitting, was then a mountain of sand, which extended across what is now called Market street, west of Third. The site of your present grand City Hall was a

lonely burying-ground, where lay the bodies of the pioneers of Yerba Buena and of the Mission of San Francisco. The only visible public park was Portsmouth Square, between Clay and Washington streets, where, on occasions when the old Monumental bell tolled, the people gathered for public meetings—a place made memorable by more than one meeting, where the issue was life or death—and by the eloquence of the great orator and patriot, Colonel Edward D. Baker, in his oration over the body of the dead Senator Broderick.

“The first Fair held by the Institute was in 1857, on the ground now occupied by the Lick House. There were no sidewalks so far south on Montgomery street and the drifting sands made walking or driving quite uncomfortable; but pluck and industry made the undertaking reasonably successful, despite the croakings of the timid. Since that time California has steadily grown in population and wealth, and is now the home of probably 1,200,000 people, who are as happy and prosperous a community as can be found in any country. The State is yet in its budding youth, and is destined to grow until its inhabitants will be numbered by millions.

“Our city has more than three hundred thousand inhabitants, and with public parks, libraries, churches, schools, theatres and hotels that we can be justly proud of, is strengthening and growing more rapidly than at any previous time. The Mechanics’ Institute has grown in usefulness and wealth in an equal ratio with the city and State. Its Exhibitions have furnished most of the money to buy and improve the land it owns, and to create and sustain its library, free classes for technical education, etc. It is an organization that absorbs nothing that it does not return in richer quality with full measure for the public good; and all of its undertakings are prospering. It is believed that the Exposition which is to be this evening opened to display the products of the labor and skill of our mechanics, and some of the results of the toil and care of the fruit-raisers and farmers of our State, will be a pronounced success. It certainly ought to be. No effort has been spared to make it a useful and attractive Exhibition.

“The person who has not been engaged in a similar undertaking can have no idea of the amount of labor and care involved in the organization of an Exhibition of this kind. The Trustees of the Mechanics’ Institute personally supervise and direct these exhibitions—the work from first to last being voluntary and without other compensation than the knowledge that they are promoting the interests of the community in which they live, and are laying the foundation broad and deep for a great educational institution, that will, in pleasant and practical ways, impart useful knowledge to those who come within the constantly widening circle of its influence.”

“The Chimes,” with bell obligato, was given by the band, and then the audience was entertained by a recitation, Drake’s “Address to the American Flag,” by Miss Gertrude Cahilin who gave it with rare elocutionary power, and in response to prolonged applause recited that beautiful poem, “Naming the Baby.” The band played “An Evening in ’Frisco”—a stirring air—and then Mayor Pond was introduced.

ADDRESS OF MAYOR POND.

“MR. PRESIDENT AND DIRECTORS OF THE MECHANICS’ INSTITUTE, LADIES AND GENTLEMEN:—I am gratified to-day in being able to congratulate you upon the inauguration of another of the annual Fairs of the Institute, which are so interesting and instructive, and which meets under most auspicious circumstances. Our city and State are prosperous, our people are happy and contented, and blessed with more than nature usually bestows upon man. I am aware that it is unusual for a Californian to ever express pride or boast of anything belonging to his State. But on this occasion I cannot fail to express my pride and admiration for this institution, which but a few years since was inaugurated with but small resources. Its founders being men of integrity and determination, doubtless builded better than they knew. It has been conducted by the skill and perseverance of its directors, who have given their time and brains to its service, until we find it an institution wealthy, strong and powerful for the education and cultivation of our people.

“Its library of over fifty thousand volumes is thrown open for the use of the public for a nominal consideration, the usefulness of which cannot be estimated in any ordinary manner, and while these annual fairs, which have grown to be one of the institutions, not alone of San Francisco, but of the whole State, are but incidental to the greater benefits which the Society contemplate in the improvement of its library, reading-rooms, class-rooms, lecture-rooms, etc, they still cannot fail to be of great advantage to all classes of our people as an educator in almost the entire line of industrial pursuits.

“The artisan, the miner and the farmer have come together and exchange thoughts and ideas equally beneficial to each other.

“The masses of the people, many of whom have neither the time nor the inclination to read or study for themselves, come together on these occasions — they see and hear, while enjoying the recreation otherwise not to them obtainable, many things which they would never know and which excites in them a desire for further knowledge. These fairs, so pleasurable, successful and beneficial in the past, I doubt not are but an evidence of the success the one we inaugurate to-day is destined to meet. I desire to assure you, gentlemen, directors of the Mechanics’ Institute, on behalf of the citizens of San Francisco, that they fully appreciate the disinterestedness of your labors, as well as the fact that your institution is a boon and a blessing to them; and that as they in the past have supported you generously, I doubt not that they will continue to do so in the future.”

A pleasing solo, “Sweet Mignonette,” was then rendered by Miss Alvina Heuer and received a hearty encore. In response she sang “Open thy Lattice.”

Robert S. Moore, the Manager of the Risdon Iron Works, delivered a thoughtful oration as follows:

“FELLOW MECHANICS, LADIES AND GENTLEMEN:—It is now thirty-three years since this Mechanics’ Institute was organized. It is but thirty-eight years since this—the State of California—was admitted to the Federal Union. I

think of what we, the mechanics of San Francisco, have achieved in the distinction of lifting ourselves and our occupations to a higher level, with great satisfaction. I look abroad over the State in which we live, over the land in which our destinies have been cast. I reflect upon the conditions surrounding us, the wages we receive, the opportunities we enjoy, the education we have acquired and that afforded to our children, the dress we are enabled to wear, the food we consume, the dwellings in which we live, the social circles in which we move, and thank God that our lot is cast in so delightful and so prosperous a land.

“I look over this most respectable audience owning its own spacious hall, in which it makes yearly exhibits of the handicraft of its members—over the faces of the mechanics’ children sparkling with bright intelligence—and I reflect that all adult mechanics are units of a great and splendid Government, each workingman the equal and the peer of every other man in the republic, and I am reverent in the presence of the Divine Author of all these most generous and ennobling gifts. I thank Him that our lot has been cast in an age so advanced and in a country so supremely blessed.

“When I consider all these things, I say to myself—and I have the right to remind you—that these gifts and opportunities are attended with responsibilities and duties from which we have no right to attempt to escape, or endeavor to avoid. The first and greatest of these must ever be the necessity of loyalty to the Government and obedience to the law—loyalty to the Government, because it is ours, because under it all men are free, all are equal; all born upon the soil and legally naturalized are clothed with the electoral privilege, all are sovereign. The Government was created by labor, carved by toil from primal wildernesses and virgin prairies; toilers and the sons of toilers fought the war in which its independence was achieved, built the national structure, developed in legislative halls its splendid constitutional fabric, fought its conflict for the emancipation of slaves and for the preservation of the American Union, and stands to-day the guardian of its freedom and the bulwark of its priceless liberties.

“We must obey the laws because we make them. The majority of the American people are laborers—laborers with brain and muscle, more with muscle than brains, more at the plow and work-bench and toiling with their hands than in all other occupations beside. The majority rules the Republic under laws made by it. We are the majority, and if we do not respect and obey the laws, who shall? If capital infringes the law, we have the right to correct it. If labor, ignorant, misguided and criminal, attempts to overturn the laws, we, the majority, within the ranks of labor, must discipline and control it.

“The first guiding principle, the cardinal underlying rule of every labor organization, the first thought of every mechanic’s mind, ought to be unquestioned obedience to the law. If the laws be wrong, tyrannical or oppressive, it is our fault; for we, if we have not neglected our duties and our opportunities, have made them. If they be imperfectly or corruptly or in any way badly executed, we are to blame; for we have elected, or had the

opportunity to elect the officials who execute them. There is no safe way of amending or repairing bad laws except by legal modes. Riots are never excusable; anarchy is a crime; communism is indefensible. Under the structure of our organization, where all are equal, all sovereign, and the majority makes the law and executes it, it follows as an inexorable, logical conclusion that if laws are bad and badly administered, it is the fault of the majority which make and execute them; and of that majority, the intelligent, skilled mechanics and workingmen of the nation are the most responsible.

“The cry against capital is not half a truth, because the greater bulk of the nation’s vast wealth is owned and enjoyed by the working forces which created it. Wealth is the slave of labor. Gold is of no value while piled in vaults; unused, it is worthless. It cannot be used, or moved, or enjoyed, except at the will of labor; and when it moves, it earns more for the man who handles it than for the man who owns it. Labor is the master, capital the indispensable, if not the always willing slave. It has some advantages; it may sulk; it may run away; it may refused to be used; it may hide itself in vaults of steel which we have been paid to make fire and burglar-proof; hence it is policy that we should make for its protection just laws, treat it kindly and generously, as all masters should treat their most valuable servants.

“Again, proud as we all are of labor, dignified and honorable as we concede it to be, let none of us be so dishonest and hypocritical as not to admit that we would prefer to be millionaires rather than working mechanics. Some time since a weekly journal of San Francisco published the names of 107 millionaires resident in this city, not one of whom was not a poor and toiling boy, not one of whom was the graduate of a learned university. All had come from the farm, the workshop and the humbler walks of working life. Wealth, like the higher prizes of life, is open to the well-directed efforts of our boys in this splendid empire of opportunity and in this age most blessed.

“This is not a fitting occasion for the introduction of political questions of a partisan character, for there must be times and places where the matters of consideration are of higher and broader importance than what we regard as mere partisan questions; but there is no time and no place where mechanics and skilled laborers can meet when it is not appropriate for them to deliberate on what concerns themselves, their families and their future. What promotes and aids labor aids them. What pertains to the rights of labor concerns them. That which dignifies labor gives them dignity. Political power and authority give to them weapons for aggression and an armor for defense. These weapons and this armor should never be used except in the right—seldom, if ever, except in self-defense under the law. When oppressions become unendurable, and wrongs irremediable by any legal course of action, then comes the right of revolution and rebellion against the unjust exercise of arbitrary power. This we will not now consider.

“How to protect ourselves and how best to promote our own interests without invading the rightful privileges of others or trespassing on rights guaranteed to others by law, should be matters which we should most carefully consider. This land of America is ours, and it must be preserved for us and as the in-

heritance of our children. Those who are born upon its soil, those who have become citizens by legal adoption, those who are on their way to citizenship through the courts, are equally entitled to all the rights and privileges incident to American citizenship. There can be organized no political party in which all should not have the privilege of membership, voice and equal participation. There should be no question in the consideration of which the workingman's intelligence should not be consulted, his unselfish and disinterested advice listened to, and his wise admonitions heeded; but there should be no political question which Americans should not have the right to freely consider and openly discuss. The question of tariff for the collection of revenue for the support of Government, and incidentally for the protection of American industries, the question of foreign immigration, and to what extent it may be regulated and limited; the discriminations which may be made for or against different nationalities and different classes, are properly within the line of political consideration; and there can be no doubt, I think, that the Government of the country has the unquestioned right to determine to what extent foreign immigration may be limited and what undesirable nationalities or classes may be entirely excluded from the privilege of residence upon American soil. There can be no doubt of the authority of the Government of the United States to determine whether it will further extend the privilege of the elective franchise and whether it will clothe any more men of foreign birth with the sovereignty of citizenship; whether it will not deem it prudent to preserve all that remains of its public domains as a heritage of its increasing native-born millions; whether the principles which govern the educational system so generously charged with free instruction at the expense of the State of the sons and daughters of the working families of the nation, should in any respect be changed, and whether there should be encouraged or permitted the establishment of any religious, denominational or church power, or ecclesiastical system, Protestant or Catholic, Church of Rome, Church of Jerusalem, Church of England or Church of America, drawing funds from municipal, State or national treasuries within the jurisdiction of a Republic whose organic and fundamental law declares that in this commonwealth there shall be no connection between Church and State.

"We look upon England as a country of wise legislation in this respect, and its Church has, by an English Parliament, within this generation, been disestablished in Scotland and Ireland, while the extension of the principle to Wales and England is now a matter of grave consideration. All these questions come properly within the scope of consideration by intelligent mechanics, because, we, in common with all citizens, are charged with the responsibility of their ultimate decision."

The speaker would answer the question, "Is labor honorable and dignified?" by pointing out that the Creator of the universe was an architect and builder, his son a carpenter, the first man a gardener, the apostles fishermen, Peter of Russia a ship-builder, Washington a surveyor, Lincoln a rail-splitter. Skilled mechanics compare favorably with the bravest and most useful of mankind—they are the very foundation of Christian civilization. The

mechanical progress of the State of California was considered. The overland railroads, the cruiser Charleston, the Lick Observatory, the Stanford University, were referred to with pride. Mechanics should be proud of their calling, should preserve themselves from ignorance, from foreign invasion, from drunkenness and crime; from all slavery, civil, ecclesiastical, or political; should educate their children, and should demand proper legislation relating to apprenticeship for them. The necessity of free thought, free conscience and free ballot should be recognized. All should be proud of American citizenship and be ever ready to offer their lives in defense of the flag.

Music by the band concluded the exercises.

At seven o'clock in the evening the doors of the Pavilion were thrown open to the public, and the Twenty-third Industrial Exposition so happily inaugurated was thereafter until its close thronged by visitors, not only of this City, State and Union, but many whose homes are in other lands.

ALPHABETICAL LIST

OF

Exhibitors and Articles Exhibited.

- 16 Abrahamson, Peter, 1022 Hyde street. Window, Door, Transom and Wall Ventilator and Sash Fastener.
- 42-22 Adams, John, Sonoma County Apples, 10 Varieties of Pelts of Wild Animals.
- 10-15 Adams & Pritchard, 505 Davis street Display of Steel Ranges, Ship's Lamps and Lanterns.
- 42 Adler, D., Sonoma County Pears
- 28 Ætna Mineral Water Co., 513 Montgomery street Mineral Water
- 42 Albee, O. J., Santa Clara County Fresh, Dried and Preserved Fruits, Jellies, Jams and Pickles.
- 8 Albert, H., Crescent City Albert's Automatic Safety Elevator
- 42 Alexander, Mrs. J. S., Stanislaus County. Ornamental Wheat Arch
- 42 Allen, B. F., Butte County Fruits, Vegetables, etc.
- 42 Allen, Otis, Sonoma County. Corn and Hops
- 26 Allen, W. S., 1225 Market street Display of Corsets
- 8 Amiot, Eugene, 16 Erie street Towel Hanger
- 42 Amsbaugh, E., Stanislaus County Corn in Ear and Stalk, Bee-Hive
- 42 Anaya, F., Stanislaus County Plums and Figs
- 42 Anderson, Chris., Humboldt County Quinces and Three Varieties of Apples.
- 42 Anderson, James P., Humboldt County Bunch of Black Tartarian Oats, 7 feet 6 inches long, and Bunch of White Tartarian Oats, 7 feet long.
- 3) Armour & Co., Chicago, Ill. Canned Meats
- 29 Arnold, Miss E. J., 514 Van Ness avenue Specimens of Rock from Natural Bridge, Calaveras County.
- 15 Arnold Water Filter Co., Oakland Water Filter
- 29 Arizona Sandstone Co., Los Angeles Block of Carved Sandstone
- 42 Arrata, P., Stanislaus County. Fruit in Glass, Home Made
- 42 Arroyo Grande, Ladies of, San Luis Obispo. 14 Boxes of Flowers
- 39 Atkinson, G. F., 11 Clementina street Turned Novelties of California Woods.
- 38 Attel, Miss Yetta, 255 Third street Fancy Hat Crown and Band
- 35 Auto-Pneumatic Car Motor Co., 19 Montgomery street Working Model of the Auto-Pneumatic System of Railways.

- 38 Backess, Mary, 322 Lombard street..... One Quilt
- 23 Bailey, C. P., San José..... Mohair and Angora Robes
- 42 Bailey, J. W., Stanislaus County Corn in Ear and Stalk, and Fruit in Glass.
- 42 Bailiff, John, Santa Rosa Graded Wool
- 42 Bakeman, H., San Luis Obispo..... Fruit
- 42 Baker, C. C., Stanislaus County..... Wild Plums
- 6-18 Baker & Hamilton, Pine and Davis streets..... General Display
Agricultural Machinery and Implements, Wagons, Plows, etc.
- 42 Baldwin, Z. L., San Benito County Wheat in Grain and Sheaf
- 42 Bales, Charles, San Luis Obispo County..... Grain
- 38 Ball, Mrs. E. F., 1015 Clay street Crazy Quilt
- 42 Ballard, Mr., Santa Clara County..... Green Fruit
- 42 Bangs, R. E., Stanislaus County..... Wheat, Crab Apples, etc.
- 42 Bangs, V. E., Stanislaus County Rye, Raw Cotton, Fruit
- 3 Banks & Co., Sumner, Kern County..... Bolt Cutter
- 42 Bardon, Mr., San Luis Obispo County..... Fruit
- 42 Barkdale, J. C., Humboldt County..... Corn, Oats, Wheat, Plums and Prunes.
- 38 Barman, Miss Clara, 2002 Filmore street..... Plush Lambrequin
- 42 Barnett, J., San Luis Obispo County..... Fruit and Vegetables
- 30 Barnett & Elliott, Hyde and Pacific streets Display of Cans
- 42 Barsellas, Manuel, San Luis Obispo County Fruit
- 42 Barsh, Z., Stanislaus County..... Wheat in Grain and Sheaf
- 40 Barteles, W. G., Oakland Wooden Fan and Easel
- 31 Bartols, A., Contra Costa County..... Wines
- 26 Bauer, Miss Josie, 1838 Geary street..... The Lightning System of Dress Cutting.
- 35 Bauer, Dr. J. A., 509 Post street..... Sun Dials
- 42 Beard, E. R., Stanislaus County..... Wheat and Grain and Sheaf, and Figs
- 5-15-18 Beauregard, N., 12 Mason street..... Quartz Mill, Water Filter and Faucet Combined, Carriage Lifting Jack.
- 42 Becket, J. F., San Luis Obispo County..... Fruit
- 31 Beckner, Bros., Sonoma County..... Wines
- 42 Beirne, Captain E. H., San Luis Obispo County..... Fruits
- 40 Bell, Miss Flora, 763 Twelfth street, Oakland..... Painting on China and Wood Carving.
- 3 Bellevue Vineyard, Sebastopol Three Varieties of Wine
- 31-42 Bellolli, J. A., Santa Clara County..... Wine and Honey
- 42 Ben Lomond Company, Santa Cruz County..... Chauché Gris Grapes
- 42 Bennett, E. P., Stanislaus County..... Wheat
- 42 Bently, R., Stanislaus County..... Wheat and Barley in Grain and Sheaf
- 42 Berry, James, Stanislaus County..... Cherries
- 42 Bertorelin & Co., Stanislaus County..... Vegetables
- 42 Bidwell, John, Chico, Butte County. General Exhibit of Fresh and Dried Fruits, Vegetables, Cereals, Nuts, Canned Fruits, etc.

- 16 Billings, H. M., Humboldt County.....Redwood and Bark Novelties
 42 Billings, J. F., Sonoma County.....Apples, Pears, Plums, Peaches and Quinces.
 38 Bissett, Mrs. H. N., 204 Hyde street.....Silk Quilt
 16 Bitzer, J. E., 2806 Buchanan street ... Model Yacht
 42 Black Diamond Canning Co., Contra Costa County....Canned Fruit and Salmon.
 42 Blackburn, Mrs. D. D., San Luis Obispo County Grain and Fruit
 42 Blackburn & James, San Luis Obispo County.....Fruit
 42 Block, A., Santa Clara County.....Pears
 42 Blodget, H. A., Kern County.Apples, Nuts, Melons and Pears
 42 Blum, G., Contra Costa County.....Plums
 29-42 Blum, L., Contra Costa County. ... Soap Stone and English Walnuts
 29-42 Board & Wade, San José...200 Varieties of Cut Flowers, 75 Varieties of Wine and Table Grapes.
 10 Bodeman, H. W., 115 First Street.....Adjustable Stove Grate
 29 Bogart, C. H., 1415 Hyde street.....Case of Postage Stamps
 28 Bogle, Mrs. Christina, 2010 Polk Street.....Quaker Medicine
 29 Boker, W. N., Stanislaus County.....Curios
 9 Bole, Miss Annie, 911 Battery street.....Pair of Horse Shoes, her own Make.
 38 Bolster, Mrs. George, 913½ Lombard street....Embroidery, Bead Work
 28 Bone, W. H., 317 Bartlett street.....Display of C. C. Liniment
 42 Booksin, H., Santa Clara County.....Green Fruit
 29 Booth, J. B., Stanislaus County.....Curios
 19 Booth, Thomas, Santa Clara County....Redwood Table
 42 Boss, A., Contra Costa County....Plums, Peaches, Prunes, Raspberries, etc.
 42 Boulevare, B. D., Butte County.....Wheat
 42 Bourgignon, E., Santa Clara County Growing Plants
 42 Bouton, A., Sonoma CountyPears, Plums, Prunes and Peaches
 16 Bovyer, W. L., 510 Sacramento street.....Ship's Propeller
 42 Bowman, Mrs. F. J., Sonoma County.....Olives, Oranges, Walnuts and Cucumbers.
 29 Boyce, Mrs. J. F., Sonoma County.....Ornamental Shrubs
 9 Boyd & Morgan, Stockton.....Case of Horse Shoes
 42 Boyer, Emma, Humboldt County.....Plums and Peaches in Bottles
 42 Boyer, Wm., Humboldt County.....Tomatoes, Apples and Green Corn
 42 Boyes, Mrs. H. E., Sonoma County.....Peaches, Corn and Grapes
 16 Boyle, Thomas F., 2110½ Larkin street.....Model Yacht "Nina"
 42 Brandenburg, C. H., Santa Clara County.....Green Fruit
 38 Bray, Miss Etta, 918 Geary street.....String of Buttons
 42 Braun, L., Contra Costa County.....Peaches, Prunes and Grapes
 36 Braun & Kinney, 229 Stevenson street.....Electric Light and Motor Switch.
 17 Bree, Thomas W., 804 Larkin street.....Display of Banjos

- 42 Breen J., San Benito County.....Chevalier Barley
 42 Brickman J., Stanislaus County.....Figs in Glass
 42 Brower, Mrs., Kern County Figs
 28 Brown, C., Stanislaus County.....Mineral Water
 38 Brown, Mrs. E. S., 610 Taylor street..... Crazy Quilt
 38 Brown, Mrs. M., 1917 Mission street.....Paper Flowers
 42 Brown & Liddle, San Luis Obispo.....Grain
 45 Bruce, John, Butte CountyTimothy
 20 Brunswick-Balke-Colender Co., 653 Market street.....Display of
 Bar Fixtures, Billiard Tables, Racks, Cues, etc.
 33 Brunt & Co., 518 Clay street.....Samples of Fine Printing and
 Badges.
 42 Bryant, C. M., Butte County.....Wheat and Barley
 21 Buchanan Bros., 609 Sacramento street....Display of Brushes, Dusters,
 etc.
 42 Buckrens, F., Kern County.....Apples, Grapes, Prunes and Pears
 33 Bunker, Miss Joy, 620 Eddy street.....String of Buttons
 18 Burgtorf, C. W., Petaluma.....Patent Road Cart, Patent Village Cart
 with Pole and Shaft.
 32 Burnell, J. H., 519 Sacramento street.....Albion Ale and Porter
 19 Burr Folding Bed Co, 603 Market street ...Display of Burr Folding Bed
 29 Burt, J. K., San Benito County.....Lime
 42 Bush, David, Contra Costa County....Grapes, Plums, Prunes, Peaches,
 etc.
 42 Butte County....General Display of Farm Products, Minerals, Ores, etc.
 35 Byce, L. C., Petaluma.....Incubator
 42 Byington, H. W., Sonoma County.....Plums, Nectarines, etc.
 31 Cady, M. K., Agua Caliente...Assorted Wines and Brandies and Cooperage
 38-42 Caldwell, Mrs. J., Stanislaus County.....Fancy Needle Work, Wheat,
 Fruit, Vegetables, Jellies, Jams, Nuts, Butter, Cheese, Pickles,
 Sauces, etc.
 42 Carlson, C.....Rye
 30 California Consolidated Food Co., 213 Eddy street....Consolidated Food
 36 California Electric Light Co., 227 Stevenson street....Display of Electric
 Light, Dynamo and Motor.
 15 Califoinia Filter Co., Oakland ... Water Filter
 9 California Horse Shoe Co., 202 Market street....Display of Horse Shoes,
 California make.
 13 California Sheep Casings Co., 24 Ellis street....Display of Butchers'
 Supplies, Machinery, Implements, etc.
 29 California Slate Co., 10 California street.....Samples of Slate from
 El Dorado County.
 8-9-21 California Wire Works, 329 Market street..... General Display of
 Wire, Wire Rope, Barb Wire, Ornamental Wire Goods, Barb Wire
 Machine in Operation. Nail Machine in Operation.

- 42 Campbell, B. F., Sonoma County Peaches and Quinces
 35 Campbell, W. H., 402 Front street.....MacGeorge's Clinograph
 42 Campley, A. P., Humboldt County.....Oats, Crab Apples and Prunes
 42 Canady & Sullivan, San Luis Obispo County.....Grain
 42 Canfield, Wm., Kern County.....Cheese
 38 Carner, Mrs. C., Stanislaus County.....Fancy Needle Work
 42 Carpenter, J. H., Stanislaus County.....Bees Wax
 42 Carrallo, A., Stanislaus County.....Onions
 42 Carriger, Mrs. C. C., Sonoma County.....Peaches, Pears, Plums
 42 Carver, A. G., Stanislaus County.....Wheat in Grain and Sheaf
 31 Cassin, P. J. & Co., 433 Battery street....Display of Orange Champagne,
 etc.
 30 Castle Bros., 200 Davis street.....Display of Teas
 8 Cavanaugh, Edward, 1166 12th street, Oakland.... Freight Car Coupling
 14 Cement Brick Co., 402 Montgomery street.. Pressed Bricks and Cement
 Mixer in Motion.
 30 Central Milling Co., Santa Clara and San Benito Counties....Displays of
 Flour.
 42 Chartin, C., Humboldt County.....Pears
 42 Chenowith, J. H., Sonoma County.....Apples, Pears, Peaches, Plums,
 Grapes, Nuts, etc.
 38 Chesley, Mrs. W. E., Redding..Spanish Drawn Work
 29 Choate, J., Stanislaus CountyCalifornia Woods and Ores
 16 Chopé, T. & Sons, 40 Main street.....Screen and Shade Fixtures
 8-30 Ciphers & Martin....Pop Corn Machine and Pop Corn
 24-28 City Steam Carpet Beating and Renovating Works, 24 Eighth street,
 Samples of Cleaned and Renovated Rugs and Carpets, Compound
 for Cleansing.
 42 Clary, A. E., Stanislaus County.....Wheat
 29-42 Clark, E., Stanislaus County.....California Woods and Rye
 19 Clark, G. W. & Co., 653 Market street... Display of Interior Decorations
 38 Clark, Miss Jennie E., 235 Thirteenth street ...Paper Flowers, Lace Tie,
 Pitcher, Cup and Saucer.
 38 Classen, Mrs. A., 111 Eureka street....Rug and Cushion
 29 Clifford, Rev. Mr., Santa RosaFine Collection of Petrifications from
 Sonoma County.
 42 Cluff, William, Contra Costa County.....Pears, Apricots, Prunes and
 Grapes.
 42 Coats, F. G., Contra Costa County.....Wheat in Grain, Plums
 28 Coburn, G. W. & Co., 6 Battery street.....Perfumery, Toilet Soaps, etc.
 42 Coffee, S. W., Stanislaus County.....Ham, Lard and Cucumbers
 42 Coffee, W. F., Stanislaus County.....Barley, Fruit in Glass, etc.
 42 Coggsell, E. B., Stanislaus County.....Figs
 42 Cohen, H., Stanislaus County.....Wheat in Sheaf
 29-42 Cole, H., Stanislaus County.....Ores and Apples
 42 Collins, A., Stanislaus CountyRaisins

- 8 Colombat, A., 108 O'Farrell street....Jacquard Loom for Making Badges, Fringes, etc., in operation.
- 18 Columbus Buggy Co., 29 Market street.....Display of Extension Top Carriages, Phaetons and Beach Wagon.
- 38 Combs, Mrs. William, Half Moon Bay.....Sea Moss, Abalone Shell Jewelry, etc., Sea Moss Pictures.
- 42 Conner, C. L., Kern County....Apples, Pears and Grapes. Fine Display of Cheese.
- 42 Conners, Mrs. C. L., Kern CountyGrasses, Gypsum, etc.
- 42 Contra Costa County....General Display of Farm and Natural Products. Minerals, Fossils, etc.
- 22 Cook, A. O. & Son., 415 Market streetLeather Belting and Lacing
- 40 Cooley, Alice Kingsbury, 1214 Thirtieth street, Oakland.....Plaster Cast of General Grant. Plaster Cast of Telula.
- 42 Coon, L. O., Sonoma County.....Dried Peaches
- 42 Cooper, J. W., Humboldt County.....Potatoes, Red Clover, Copper Ore, Oats.
- 40-41 Costri, S., 504 Larkin Street..Carved Frames, Engraving, Photograph
- 16 Cousins, R.....Model Yachts "Shamrock," and "Coquette "
- 16 Cousins, R. J.....Model Yacht "Puritan "
- 31 Crabb, H. W., Oakville, Napa County....California Wines and Brandies
- 8 Craig, JohnImproved Patent Railway Safety Guard
- 42 Craig, O. W., Sonoma County.....Grapes
- 30 Crane, Robert, Santa Rosa....Ham and Bacon in Sonoma County
- 42 Crawford, E., Stanislaus County.....Wheat and Barley
- 22 Cropley & Son, Santa Rosa..Six Varieties of Leather in Sonoma Display
- 16 Crowe, George A., 1011 Washington street....Model Yacht "Volunteer "
- 38 Crouse, Mrs. C. F., 724 Harrison street.....Crazy Quilt
- 38 Culligan, Annie, 104 Hayes street.....Table Scarf
- 42 Curkham, C., Humboldt County.....Tomatoes
- 42 Currier, J. C., San Luis Obispo County.....Grain and Fruit
- 42 Cutter, E. P., Sonoma CountyPumpkins
- 16 Cutting & McDonald, Humboldt County.....Shingles
- 30 Cutting Packing Co. Fresh Salmon in Cans, in Humboldt County Display.
- 28-30 Cutting, the J. T. Co., 25 California street.....Display of Dr. Price's Baking Powder, Condensed Milk, Highland Brand. Canned Goods, Germea, etc.
- 42 Dahle, J., Humboldt CountyOats in Sheaf
- 8 Daily Examiner, Market and Grant Avenue.Display of Stereotype Plates, Paper Rolls, etc.
- 8 Daily Report, 328 Montgomery StreetStereotype Plates
- 42 Dale, W. C., Stanislaus County.....Wheat in Grain
- 30 Damonte, A., San José... Glacé Fruits, Italian Nougats, etc., California make.

- 29 Davies, A. E., Santa Clara County..... Native Woods
- 42 Davies, J. F., Stanislaus County Figs in Glass
- 42 Davis, W. D., Sonoma County.....Peaches, Prunes, Plums, Melons and
Squash.
- 21 Davy, Joseph, 414 Hayes street Patent Demijohn Case
- 42 Dawson J. W., Santa Clara County.... Canned and Preserved Fruits and
Vegetables.
- 42 De Gregory, M., Stanislaus County..... Potatoes.
- 31 De Turk, Isaac, Santa Rosa... Assorted Samples of Wine and Brandy
in Sonoma County Display.
- 10 De La Montanya, J., 608 Battery Street..... General Display of Stoves
Ranges and Grates.
- 26-38 Delp, Mary V., 500 Eddy street... Parisian Method of Dress Cuttings,
Display of Art, Needle and Fancy Toilet Work.
- 5 Denniston, E. G., 653 Mission street..... Silver Plated Amalgamated
Mining Plates.
- 18 Devaney, Hopkins & Co., 53 Stanyan street Display of Bicycles,
Tricycles and Tandems.
- 41 Dewey, The, Engraving Co., 220 Market street Display of Fine
Zinc Etchings, Photo Fac-Simile Engravings, Wood and Wax
Engravings, etc.
- 19 Dewing, The, J. Co., 813 Market street.... Display of School Apparatus,
Desks, Supplies, etc.
- 42 Dickson, C. C., Humboldt County Potatoes
- 42 Dinsmore, J. O., Humboldt County..... Oats and Barley in Sheaf
- 31 Distel, Bernard, Santa Clara County California Wines and Brandies
- 28 Dixon Crucible Co., 106 Davis street Dixon's Graphite Goods
- 9 Doble, A., 13 Fremont.... Steel and Copper Blacksmith's and Miner's
Tools.
- 42 Dougherty, W. J., Kern County..... Honey
- 16 Dolbeer & Carson, Humboldt County..... Polished Redwood
- 42 Dougherty, P., San Benito County..... Barley in Grain and Sheaf
- 2 Dow Steam Pump Works, 114 Beale street.... Display of Steam Pumps
- 16 Doyle, Chester, 31 Montgomery street.... Model of Yacht "Burlington."
- 38 Doyle, Mrs. T., 1641 Mission street..... Laurel Leaf Quilt
- 42 Drags, H., Sonoma County..... Pears and Peaches
- 42 Draper, M., San Luis Obispo County..... Vegetables
- 42 Draper, W. F., Stanislaus County Fruit in Glass
- 38 Drury, Mrs. J., 723 Market street..... Table Scarf
- 29 Drury, J. S., Kern County..... Ramie
- 8 Drury, T. H., 624 Fourth street.... Model of Brick Machine and Model
of Hay Press.
- 42 Duhem, A., 121 Sutter street..... Display of Flowers, Plants, etc
- 42 Dukes, William, Contra Costa County.... Plums, Peaches, Apples, Pears,
Dried Prunes, Corn, Quinces, etc.
- 42 Dumble, E., Kern County..... Lemons, Limes and Oranges

- 29 Dunn, Mrs. H., Sonoma County.....Flowers
 42 Dutton, John, Sonoma County.....Dried Peaches
 42 Eastman, V., Butte County.....Wheat
 42 Ede, William, 460 Guerrero street..Large Quince Raised in San Francisco
 36 Electrical Supply Co., 328 Bush street....Display of Electrical Supplies,
 Appliances, etc.
 1 Elliot, Charles, 516 California street.....Elliot's Purifier for Steam Boiler
 42 Ellis, J., Kern County.....Cheese
 39 Emmons, Mrs., Central Avenue, Alameda....Screen Painting
 28 Engenbrecht, Son & Co., 21 First Street.....Vienna Coffee Flavor
 42 Ennis, F. F., Sonoma County.....Plums and Prunes
 38 Erzgraber, Mrs. L., Murphy Building.....Display of Embroidery
 8 Estate of Samuel Hill, 725 Market street.....Display of Caligraphs
 42 Evans Bros., Humboldt County....80 pound Squash, 4 Varieties of
 Apples; Hops, Tomatoes, and Carrots.
 28 Everding, J. & Co., 48 Clay street....Display of Corn Starch, Granulated
 Soap, etc..
 22-23 Everhardt, J., Santa Clara County.....Leather and Angora Robes

 42 Farmer, Mr., Humboldt County.....Two Varieties of Apples
 19-23 Farrar, B. F., 1555 Market street....Sofa Beds, Wire and Spring
 Mattresses, Wire Cots, Curled Hair, etc.
 42 Farwell, Frank, Santa Clara County.....Vegetables
 38 Feeble Minded Children, The Home of, Santa Clara.....Display of
 School Work and Industrial Training.
 42 Fergerson, James, San Luis Obispo.....Squash
 16 Field, T.....Model Yacht "Dream"
 42 Findley, W. H., San Luis Obispo County.....Fruit and Vegetables
 42 Finley, W. H., Stanislaus County.....English Walnuts
 42 Finney, L. A., Stanislaus County.....Australian Wheat in Sheaf
 38-7 Fischer, Mrs. F., 598 Stevenson street.....Display of Embroideries,
 French Embroidery Machine.
 42 Fish, L. J., Contra Costa County.....Plums, Prunes, etc.
 21 Fisher, Charles & Co., Santa Clara County.....Brooms
 28-30 Fisher, George A., 109 California street...Display of Starch, Baking
 Powder, Sooyee, etc.
 42 Fitzgerald, M., Humboldt County.....Tan Bark
 38 Fitzpatrick, Ella, 411 Twenty-second street.....String of Buttons
 42 Fitzsimmons, M., Humboldt County.....Potatoes and Plums
 29 Flanigan & Brosnan, Humboldt County.....Marble
 42 Flickinger, J. M., Santa Clara County.....Dried Fruits, Canned and
 Preserved Fruits and Vegetables.
 42 Flinn, Levi, San Luis Obispo County.....Fruits
 42 Flint, Thomas, Jr., San Juan, San Benito County.....Exhibit of Dried
 Fruits.
 29 Fogarty, Mrs. H., Stanislaus County.....Palm Leaves

- 42 Forbes, Alexander, Humboldt County.....Pears and Plums
 35 Forbes, Stanley, Humboldt County.....Map of Humboldt County, Cal.
 31 Foret, P., Stanislaus County..... .. California Wines
 29 Fortriede, H., 637 Market streetDisplay of Ivory, Amber and Shell Goods.
 41 Foss, Oscar, 841 Mission street..... Display of Photographic Materials, Amateur Outfits, etc.
 42 Fouck, Mr., Humboldt County..... .. Peaches
 16 Fowler, G. C., 656 Howard street..... .. Miniature Steamship
 42 Fowler, J. H., Sonoma County..... .. Timothy Heads
 42 Fox, J. & C., Stanislaus County..... .. Chili Wheat in Sheaf
 38 Fox, Miss Laura, San José..... .. Lace Handkerchief and Collars
 42 Frazer, George, Contra Costa County... .. Hungarian Prunes
 41 Freese & Tetrow, Humboldt County.. Photographic Views of Humboldt County.
 26 Friedman, W., 1150 Market street Display of Cloaks and Quilted Satins.
 19 Friend, Josie, 110 Taylor street Spring Mattress
 19 Fuller, George H., 638 Mission street..... Office and School Furniture
 22 Gabbs, A. S., 180 Guerrero streetPatent Trunk Harness
 42 Gaillet, Mrs., Stanislaus CountyFruit in Glass
 42 Galin, F., Butte County..... .. Wheat
 31 Gambs, J., Contra Costa County..... .. California Wines
 4 Garçin, L. P. & Sons, 294 Howard Street.....Display of Lifting Jacks
 42 Gardelli, Joe, Butte County..... .. Apples and Peaches
 2 Garratt, W. T. & Co., Fremont and NatomaDisplay of Hooker's Patent Deep Well and Direct Acting Steam Pumps. Richard's Patent Centrifugal Pump. Hall's Patent Duplex Steam Pump, etc.
 38 Gaubatz, L. E., 1551½ Market streetFancy Table Cover and Tidies
 42 Geer, H., Humboldt County. Beets
 30 Getz Bros. & Co., 209 Market street..... .. Display of A. & C. Hams
 28 Giant Powder Co., 30 California street.....Display of Giant and Judson Powders, Blasting Caps and Fuse.
 5 Gibson, J. C., 29 California street..... .. Ore Feeder
 42 Gibson, S., Stanislaus County Barley in Sheaf
 42 Gibson & Lyons, San Luis Obispo County..... .. Grain
 6 Gilman, L. J., Santa RosaPatent Attachment to Header
 42 Gilroy Packing Co., Santa Clara County....Canned and Preserved Fruits and Vegetables.
 42 Givans, W. J., Stanislaus County.....Fruit in Glass
 42 Gofurth, Mrs. E. R., Sonoma County.....Grapes and Peaches
 8 Golden Gate Automatic Street Station Indicator Co., 308 Pine street, Indicator and Machine.
 16 Gompertz, George C., 4310 California street ... Model of Yacht "Thistle"
 35 Goodall, Capt. Chas.,Mariner's Automatic Self Registering Compass, Chas. O. Farciot's Patent.

- 29 Goodrich, E. E., Santa Clara County..... Building Stone
- 28-42 Goodrich, Edward E., Santa Clara County. . .Display of Olive Oil, and
one Olive Tree and Cuttings.
- 10-40 Goodrich, Taylor, 27 New Montgomery street.....Display of Ranges,
Art Castings, etc.
- 38 Gordan, A. E., 118½ Fulton street..... Paper Fruit and Embroidery
- 42 Gordan, C. E., Humboldt County. Apricots
- 38 Gosch & Zibelin, Polk and Pine streetsArtificial Flowers.
- 42 Gould, C. G., Contra Costa County..... Apples, Peaches, Apricots,
Almonds and Corn.
- 15 Graff, A. S. & Co., 47 Second street.....Hanging and Standing Lamps
and Diamond Coal Oil Burners.
- 38 Graham, Mrs. A. B., 131 Post street.....Decorative Needle Work
- 42 Graham, W. B., San Luis Obispo County. Grain
- 38 Graupner, Mrs. L. C., 1206 Market street Crazy Quilt
- 42 Greeb, C., San Luis Obispo County.....Fruit and Vegetables.
- 42 Gregory, Judge, San Luis Obispo County.....Fruit.
- 28 Greenbaum & Co., 128 Post street.....Display of Perfumery, Toilet
Articles, Flavoring Extracts.
- 42 Gregory, J., San Luis Obispo.....Peaches and Apricots
- 42 Gridley, Mrs. R., Stanislaus CountySeedling Plums
- 38 Griffith, Mrs. Emma, 11 Geneva street.....Crochet Bedspread
- 42 Groves, W. V., Butte County..... Pomegranates and Grapes
- 42 Grubs, P. H., Butte County.....Apples and Peaches
- 42 Guerney, H. B., Stanislaus County.....Wheat in Sheaf
- 28 Guillermet, Francis, 417 Sutter streetHair Tonic
- 39-40 Gump, S. & G., 481 Market street..... Display of Pictures, Mirrors,
Gilt Cabinets, Mantel Tops, Art Work, etc.
- 31 Gundlach, J. & Co., Rheinfarm, Sonoma.....Assorted Samples of Wine
and Brandy in Sonoma County Display.
- 22 Haar, Martin, Petaluma..... Six Styles of Saddle Trees in Sonoma
County Display.
- 42 Haas, Henry, San Luis Obispo County ... Fruit and Vegetables
- 42 Hall, Allen, Butte County..... Corn
- 21 Halvorson, H. J., Humboldt County.....Butter Kegs
- 42 Hammond, J. S., Stanislaus County.....Barley in Grain and Sheaf
- 42 Hampton, Austin, San Luis Obispo County.....Fruits
- 38 Hanson, Mrs. J. W., 1611 Golden Gate Avenue.... Hand Crochet Spread
- 31 Haraszthy, Arpad & Co., Washington street.....Display of California
Wines and Brandies, Eclipse Champagne.
- 15 Hardcastle, George, 34 Ellis street....Wick Regulator for Oil Stoves, etc
- 12 Harden, F. B., 822 Sixteenth street, Oakland...“Chase” Burglar and Fire
Alarm.
- 42 Hardesty, J., Stanislaus County.....Blue Figs
- 42 Hardy, A. M., San Luis Obispo County.....Fruit

- 42 Hardy, H. P., Contra Costa County..Plums, Preserved Fruits and Jellies
 42 Harmon, Charles, Humboldt County.....Raspberries
 42 Harris, B. J., Stanislaus County.....Fruit in Glass
 16 Harris & Jones, Bryant near 5th streetCalifornia Dressed Lumber
 21 Harrison & Dickson, 220 Front streetDisplay of Indurated Fibre Ware
 42 Harrison Ranch, San Luis Obispo.....Fruit
 10 Harvey, C. D., 30 New Montgomery street....Display of Water and Steam Radiators, Hot Water Heater.
 38 Haskin, Mrs. Katie, 68 Clementina street Crazy Quilt
 42 Haslucker & Co., Stanislaus County.....Fruit in Glass
 42 Hastie, R., Contra Costa County.....Seedling Raisins and Pears
 42 Hathaway, E., Sonoma County Apples
 8 Hawks, N. C., 320 Battery street.....Paper Jogger
 1-6 Hawley Bros., Hardware Co , 301 Market street .Display of Agricultural Machinery and Implements; 1 Engine, Straw Burner; 1 Windmill, etc.
 16 Hayes, George, 514 Grove street.....Inlaid Picture Frame
 42 Hazelbush, J., Butte County.....Wheat
 42 Healds, J. G., Sonoma County.....Grapes
 42 Healdsburg Cannery, Sonoma County.....Display of Canned and Preserved Fruits, and Vegetables by the Factory.
 8 Hebard, H. A., 1330 Market street.Display of Button Hole and Sewing Machines.
 33 Hecht, Joseph A System of Improved Long-Hand for General Use
 25 Heineman, H. M., 35 Sutter street . Gloves, Neckwear and Suspenders
 38 Hessler, Miss Lillie, 225 Capp street.....Crochet Yokes and Laces
 1 Hewson, R., 718 Octavia streetRotary Steam Engine
 41 Heydon, Asa T., 402 Montgomery street.....Pen and Ink Drawings and Photo Engravings.
 3-7 Hicks, J. L., 667 Mission streetFoot Lathes, " Helpmate " and " New York " Sewing Machines.
 42 Hill, W. McP., Sonoma County.....Apples, Pears, Peaches, Prunes, Plums.
 28 Hiller Drug Co., 23 Stevenson streetDisplay of Hiller's Special Prescriptions.
 6 Hilton, Osgood, 1537 Geary streetGiant Churn
 42 Hilton, W. H., Sonoma County.....Pears and Prunes
 16 Hindes, E. B. & Co., 411 Mission street.. ...Hill's Patent Inside Sliding Blinds.
 42 Hining, C. H., Stanislaus CountyFruit in Glass
 38 Hirsch, Hortense, 1911 Bush StreetString of Buttons
 42 Hollenbeck, Mrs., Contra Costa County.....Plums, Pears, Peaches
 26 Holmes, W. H., 1208 Market street.....Display of Millinery Materials and Trimmed Goods, etc.
 42 Holtby, Mr., Kern County.....Prunes
 42 Honigsberg, A. J., Humboldt County Wool

- 42-31 Hook, J., Contra Costa County.....Pears, Plums, Grapes and California Wines.
- 42 Hook, Mrs. V., Contra Costa County.....Jams and Jellies
- 31-42 Hooper, George F., Sonoma CountyWines, Brandies, Oranges, Lemons, Olives and and Olive Oil.
- 8 Hopkins, O. G., 628 Market street..“ The Miller ” Hand Chemical Engine
- 42 Horn, Mrs. Fannie, Santa Clara County.....Jams, Jellies, Green Fruit
- 8 Hoskins, T. D., Santa Rosa.....Model of Road Locomotive
- 1 Hoskins, T. D., Santa Rosa.....Traction Engine, and Model of Road Locomotive
- 42 Hotchkiss, Mr., Santa Clara County.....Green Fruit
- 41 Howe, Mrs. C., 2723 Bryant street....Picture of Ship and Sunrise, made of Ore.....
- 38 Howe, Mrs. Leland, Sacramento.....Fancy Corn Husk Baskets
- 42 Howe, R., Sonoma County.....Pears
- 42 Huefner, O. C., Contra Costa County.....Peaches, Plums, Prunes, Nectarines, Grapes and Figs.
- 37 Hudson, Dr. A. S., Stockton.....Artificial Leg
- 42 Hughes, Mr., Sonoma County.....Pumpkins
- 38 Hughes, Miss Nellie, 503 Folsom street.....Calico Quilt
- 42 Humboldt County.....General Display of Farm Products, Timber, etc
- 5 Huntington, F. A., 45 Fremont street....Centrifugal Roller Quartz Mill, “ Challenge,” Ore Feeder, Rock Breaker.
- 16 Hurlburt Bros., 539 Brannan street.....Display of Redwood Veneers, Carpenter, Joiner and Cabinet Work.
- 42 Ingalls, Mrs. S. T., Santa Clara County.....Green Fruit
- 42 Ingalls, B. J., San Benito County....Wheat in Grain and Sheaf
- 14 Inyo Marble Co., Inyo, Cal., 623 Commercial street.....Display of California Marble.
- 1-2-6 Jackson, Byron, 625 Sixth street.....Steam Engine, Pumps and Agricultural Machinery.
- 16 Jackson & Co. P. H., 228 First street.....“ Acme ” Ventilator
- 28 Jacobs, Mrs. H., Sixth street.....“ La Tosca ” Perfumery and Sachet Powder.
- 42 Jamison, K., Stanislaus County.....Wheat in Sheaf
- 15 Jantzen, Fred., 717 Market street.....Display of Hanging and Standing Lamps.
- 31 Jarvis, G. M., San JoseCalifornia Wines and Brandies
- 31 Jarvis, The J. M. Co...General Exhibit of California Wines and Brandies in Santa Clara County Display.
- 42 Jennings, L., Sonoma County.....Plums
- 42 Jewell, J. R., Sonoma County.....Cheese
- 10 Jewett, Sherman S. & Co., 527 Market street.....General Display of Stoves, Ranges, Gas and Gasoline Stoves, House Furnishing Goods, etc.

- 19 Jobson, W. G., 603 Market street.....Marks' Adjustable Folding Chairs
 16 Johnson, A., 2806 Buchanan street.... Model Yacht "Nettie"
 22 Johnson, Charles, Humboldt County.....Logger's Shoe
 42 Johnson, R. C., Sonoma CountyVegetables
 42 Jones, Albert, Butte County.... Oranges
 42 Jones, Cyrus, Santa Clara County ... Nuts
 42 Jones, N., Contra Costa County.....Peaches and Almonds
 28 Josephson, M., 322 California street..New California Wall Paper Process
 1-5 Joshua Hendy Machine Works, 51 Fremont streetDisplay of Ore
 Feeders, The Dewey Patent Wheel Scraper, Combination Band Saw
 Device, Buffalo Duplex Steam Pumps, Reversible Hoisting Engine,
 Hoisting Engine and Boiler, Upright Boiler and Engine Combined,
 etc.
 42 Julian, J. S., Contra Costa County..Apples, Potatoes and Egyptian Corn
 20 Jungblut, August and Co., 10 Golden Gate Avenue..... Display of
 Billiard Tables, Cues, Racks, etc.
- 16 Keefe & Fraser, 317 Sutter street. Finished Redwoods, Stained and
 Polished, White, Enamel and Gold. Finished with Elastica.
 42 Keith, J., Kern County..... Wool
 36 Keith, N. S., 40 Nevada Block...Electric Dynamo and Motor Appliances,
 etc.
 16 Kennerson, H. B. Life Boat
 42 Kern County.....General Display of Farm and Natural Products,
 Minerals, Photographs, etc.
 42 Kerr, Mrs. D. G., Stanislaus County.....Fruit and Jellies in Glasses
 42 Kerr, J. F., Stanislaus County.....Blue Figs, Potatoes, etc.
 38 Kervin, Mrs. M. E., 2024 Mission street Piece of Drapery
 42 Kester, Mr., San Luis Obispo CountyFruit
 38 Keyes, Miss Sarah, Healdsburg..... Lace Apron
 38 Keyer, Mrs. Sarah, Healdsburg.....Rebecca Degree Apron, Original
 Design, in Sonoma County Display.
 42 Killborn, G., Stanislaus County..... Grapes
 42 Kingwell, R., Sonoma County.....Apples, Peaches, Prunes, Plums and
 Grapes.
 42 Kirkpatrick & Co., Stanislaus County..... Spanish Merino Work
 38 Kittler, Mrs. A., 164 Clementina street..... Crochet Spread and Shams
 42 Kloppenberg, William, Sonoma County..... Apples, Plums, Prunes
 30 Knowles & Son, Stanislaus County .. Flour
 29 Knowlton, A. L., Chico, Butte County....Display of California Minerals
 in Butte County.
 17 Kohler & Chase, 137 Post street..... Display of Brass, Wind, Reed and
 Stringed Instruments, Pianos, Organs, etc.
 21 Korbell, F. & Bros., Humboldt County..... Redwood Tank
 25 Krueger, J. H., Trinity Place..... Walking Canes and Whips
 42 Kunitz, A. M., San Luis Obispo County..... Fruit

- 42 Ladd, L. M., San Benito County.....Wheat in Grain and Sheaf
- 42 Lake County.....General Display of Farm and Natural Products,
Minerals, etc.
- 42 Lamotte, A. V., Sonoma County...Dried Prunes, Melons and Gourds
- 42 Lany, J. P., Sonoma County...Plums, Pears, Corn and Osage Oranges
- 30 Larroche, F. & Son., 534 Clay street.....Canned Goods
- 42 Lasswell, J., San Luis Obispo County.....Broom Corn
- 42 Lathrop, R. P., San Benito County.....Hay, Wheat, Oats
- 28-30-42 La Favre Packing Company, 623 Geary street.....Olive Oil,
Saratoga Chips, Fruit Jellies, Plum Pudding Sauce and California
Plum Pudding.
- 26 La Ville, A., 212 Sixth street.....Display of Ladies' and Children's
Underwear.
- 37 Leek, G. W., 6 O'Farrell street.....Display of Tools and Specimens of
Dentistry.
- 42 Leggett, C. H., Butte County.....Grapes
- 42 Legmacino, J., San Benito County.....Fruit and Vegetables
- 42 Leiding, F., Sonoma County.....Apples, Pears, Prunes, Figs, Grapes,
Nuts, Corn, etc.
- 19 Leight, E. H., Santa Rosa.....Rustic Stand in Sonoma County Display
- 28 Lengfeld, A. L., Baldwin Hotel...Display of Perfumery, Powders, etc.
- 35 Lentill, L. N., Humboldt County.....Map of City of Eureka
- 11 Liddle & Kaeding, 538 Washington Street...Fire Arms, Sporting Goods,
etc.
- 23 Liebes, H. & Co., 113 Montgomery street.....Display of Furs, Skins,
Mats, Robes, etc.
- 6 Lillie, B. A., 614 McAllister street.....Fruit Pitting Machine
- 42 Litchfield, D., Sonoma County...Pears, Plums, Peaches, Prunes,
Apples, Grapes, Figs, etc.
- 16 Little & Knowles Lumber Co., Mission and Main streets.....Samples of
Redwood.
- 8 Locke, W. J., 819 Church street.....Knock-down Crate
- 42 Looney, William, Butte County.....Wheat
- 31 Lorenson & Peterson, Stanislaus County.....Beer and Porter
- 26 Loudon, W. M., 224 Stockton street.....The "Studabecker" Tailor
Square, Ladies' and Gents' Dress Forms, Patent Dress Board.
- 42 Lowe Bros., San Luis Obispo County.....Fruit and Vegetables
- 42 Lyman, Dr. L. E., Stanislaus County.....Potatoes
- 28 Lyon, George F., 101 Grant avenue.....Couch's Cleaning Preparation
- 8 MacEwen, A. W. H., Flood Building...Display of Decimal Weights and
Measures.
- 38 Madden, Mrs. E. G., Mark West, Sonoma County.....Stand and Chair
Tidies.
- 42 Maddagh, G., San Luis Obispo County.....Fruit
- 38 Madden, Mrs. E. G., 75 years old, Santa Rosa.....Chair and Stand Tidy

- 42 Maddocks, W., Sonoma County..... Peaches
 29 Maddux, Dr., Kern County.....Asperetta Grass and Clover
 42 Magnolia Cannery, Sonoma County... General Assortment of Preserved
 Fruits and Vegetables by the Cannery.
 38 Mahon, Tillie, 606 Ellis street....Tapestry Picture, Washington Crossing
 the Delaware.
 1 Mailer, John, Diamond and Twenty-third streets....Furnace Door Liner,
 Furnace Grate Bar.
 42 Maillard, Joseph, Sonoma County.....Squash
 42 Malarin, Y., San Benito County.....Cheese
 40 Mallon, John, 19 Fremont street.....General Display of Cut, Embossed,
 Bent and Art-stained Glass, etc.; Mirrors, California Manufacture
 42 Maloney, Mrs., San Benito County.....Wheat in Grain and Sheaf
 38 Maloney, Miss Lillie, 9 Mission avenue.....Specimen of Crochet Work—
 Girl 9 years old.
 38 Marcus, Miss Eva, 1238 Folsom street.....Tidy and Lace
 29 Marriott, Mrs., Stanislaus County.....Palm Leaves
 8-36 Martel, A. F., 35 Market street.....Electric Batteries, Grip Machine
 and Railway Signals.
 42 Martin, Henry, San Luis Obispo County.....Fruits
 3 Marwedel, C. F., 56 First street.....Display of Machinist and Moulders'
 Tools.
 19 Marwedel, E. H., 12 Second street.....Display of Brass Bedsteads,
 Window-shades, Curtain-poles, etc.
 6 Mast, P. P. & Co., 31 Market street.....Lubin Pulverizers
 42 Maul, C. A., Kern County.....Peaches and Bamboo
 28 Maze, Miss Belle, Stanislaus County.....Lavender
 14 Maze, Charles, Stanislaus County.....Bricks
 42 McAble, J. B., San Benito County.....Fruit and Vegetables
 42 McCann, D., Humboldt County.....One Bunch Timothy $7\frac{1}{2}$ feet long,
 Clover $6\frac{1}{2}$ feet long.
 42 McCann, J., San Benito County.....Rye in Grain and Sheaf
 42 McConnell, George, San Benito County... Fruit and Vegetables
 42 McDermott, W. H., Humboldt County.....Potatoes
 42 McDonald, J., Stanislaus County.....Wheat and Barley in Sheaf
 29 McDonald, M. L., Sonoma County.....Sugar Cane
 42 McGann, J., Butte County.....Timothy
 42 McGlasen, J., San Luis Obispo.....Fruits
 42 McGlinicy, Mrs. M. M., Santa Clara County.....Green Fruit
 42 McHenry, Robert, Stanislaus County.....Barley, Corn and Apples
 42 McIntosh, L., Butte County.....Wheat
 16 McKay & Co., Humboldt County.....Redwood Plank 137 Inches Wide
 42 McKenzie, J., Sonoma County.....Pears and Apples
 29 McKinley, L. M., Stanislaus County.....Mineral Water
 42 McLaughlin, T., San Benito County.....Chevalier Barley in Grain and
 Sheaf.

- 38 McMillan, Mrs. D., Humboldt County.....Hearth Rug
 42 McMillan, Michael, Humboldt County.....Apples
 38 McNicol & Ashim, 800 Larkin street.....Display of Arrasene, Chenille
 and Silk Embroidery.
 25 McPherson & Conway..... California-made Shirts
 42 Meahan, James, Humboldt CountyOnions and Carrots
 42 Melton, F., San Luis Obispo CountyFruit
 28 Melvin, Clara, 126 Kearny street.....Display of Rouge, Langtry Cream
 and Acme Lotion.
 28-42 Meade, L. G., Contra Costa County.....Mineral Water, Plums and
 Nectarines.
 31 Merither, J. C., Santa Clara County.....California Wines and Brandies
 18 Mersereau & Son, 2245 Mission street.....Phaeton and Park Carts
 42 Messic, Mr., Contra Costa County.....Apples, Pears, Plums and Prunes
 14 Meston, Charles, 106 O'Farrell street.....Enameled Letters
 42 Methodist East Parsonage, Stanislaus County.....Smyrna Figs
 15 Meyer, Marshall & Co., 147 Ellis street.....Lungren Gas Lamps
 17 Miller, Louis, 108 Third street.....Display of Accordeons—own make
 42 Miller, S., Stanislaus County.....Cheese and Green Fruit
 42 Mitchell, F. W., Santa Clara County.....Green Fruit
 42 Mitchell, George, San Benito County Cheese
 42 Mitchell, John L., Humboldt County.....1 Sack of Beans and 3
 Varieties of Apples.
 8 Mock, Wesley, Santa Rosa..... Car Coupling
 31 Moller, Emile, Healdsburg....Three Varieties of Wine in Sonoma County
 Display.
 42 Monatti, A., Stanislaus County.....Gherkins
 28 Moore, Mrs. E. G., Stanislaus County.....Lye, Hard and Soft Soap
 42 Moore, J., Butte County..... Wheat
 29 Moore, William, Stanislaus County.....Mineral Ores
 29 Moore, L. W., Santa Barbara..... Specimen of White and Yellow Sand
 Stone.
 42 Morgan, Mrs., Kern County.....Strawberries
 8 Morning Call, 525 Montgomery street.... Display of Stereotype Plates
 42 Morris Bros., Sonoma County..... Apples, Pears, Prunes, Plums
 42 Morse, E. C., Santa Clara County.....Garden Seeds
 29 Mount Diablo Mines, Contra Costa CountyQuicksilver, Gold and
 Silver Ores.
 42 Muncey, J. S., Stanislaus County.....Wheat in Grain and Sheaf
 42 Murphy, A. S., San Benito County .. Oats in Grain and Sheaf
 29 Murphy & Guerne, Sonoma County.....Redwood Log
 26 Murray, Mrs. Carrie, 823 Valencia street....Ever-Ready Dress Stay and
 Extenders.
 42 Murry & Baldwin, Stanislaus County.....Wheat in Sheaf
 10 Myers, John F. & Co., 863 Market street.....Display of Gasoline, Gas,
 Oil, and Coal and Wood Ranges.

- 42 Myers, Mrs. S. D., Humboldt County....Pears, Nectarines, Peaches and Nuts.
- 28 Myers, S. L., 1225 Page street.....Display of Koumiss
- 29 Murdock, C. A., Humboldt County.....Elk Horns
- 21 Nakamura, H. M., 218 O'Farrell street.....Bamboo Art Work
- 42 Naramore, F., Santa Clara County.....Green Fruit
- 42 Nash, F. B., San Benito County.....Wheat in Grain and Sheaf
- 42 Nast & Co., San Benito County.....Cheese
- 32 National Brewing Co., Fulton and Webster....Display of Lager, Draught and Export Beer.
- 14 Nathan, Dohrmann & Co., Sutter street.....Cut Bar Glassware
- 42 Nelson, M., Humboldt County.....Oats
- 26 Neumann, Alfred, 221 Post street.....Tailor-made Equestrienne Habits
- 24-29 Neumann, Joseph.....Silk Worms, Moths, Eggs, Cocoons, Silk in Hanks and Fabric.
- 29 New Idria Mines, San Benito County.....Cinnabar
- 42 Newhall Bros., San Luis Obispo County.....Citrus Fruit
- 42 Newman, S., Stanislaus County.....Wheat and Barley in Sheaf
- 33 Nichols Manifold Copying Paper Co., 222 Market street.....Patent Copying Paper, Inks, Pencils, etc.
- 42 Noe, Jessie, Humboldt County.....Apples
- 25 Norcross, D. & Co., 6 Post street.....Display of Regalias, Society and Military Badges.
- 42 Norton, R. G., San Benito County.....Wheat in Grain and Sheaf
- 8-10-15 Novelty Hardware Co., 1433 Market street.....Insect Exterminator, Kitchen Utensils and "Safety" Lamp Burner.
- 42 Nye, Jacob, San Benito County.....Green Fruit
- 26 Ober, Mrs. M. H., 332 Sutter street.....Display of Corsets, Shoulder Braces and Underwear.
- 38 Ochs, Miss Amelia, 1202 Turk street.....Hand-painted Piano Cover and Felt Tidy.
- 42 Odum, Rev. Mr., Stanislaus County.....Smyrna Figs
- 38 Oellerich, Mrs. Mary, 300 Sutter street.....Pair Knitted Curtains
- 1 Ohmen, William H., Fremont street.....The Ohmen-Simmons Automatic Cut-off Steam Engine.
- 18 Osborn & Alexander, 628 Market street.. Bicycles, Tricycles and Safeties
- 28 Osborne, H. E., 510 California street.....Display of Utwah
- 42 Overfield, George, Contra Costa County.....Plums and Pears
- 15 Owens, John B., 24 Hayes street.....Stanford Light Lamps and Vapor Stoves, California Inventions.
- 8 O'Donnell, James.....Model of Patent Rotary Valve for Steam Engines
- 12 O'Neill, J. G., Nevada City, California.....Combination Lock

- 30 Pacific Baking Co., 717 Battery street..... Snow Flake Bread
- 41 Pacific Business College, 320 Post street Display of Pen Work
- 24 Pacific Cleaning and Dyeing Works, 353 Tehama street..... Dyed and
Cleaned Articles.
- 28 Pacific Congress Water Co., Santa Clara County..... Mineral Water
- 9 Pacific Copper Works, 565 Mission street, L. Wagner, Proprietor.. Display
Copper Distilling Apparatus, Soda Water Apparatus, etc.
- 16 Pacific Pine Lumber Co., 12 California street..... Longest Stick of Sawn
Timber in the World.
- 19 Pacific Spring and Mattress Co., 762 Mission street..... Iron Bedsteads,
Woven Wire Mattress, Folding Beds, Patent Bed Lounges and
Chairs, Spring Mattresses, Bedding, etc.
- 18 Pacific Top Co., 421 Market street..... Display of Buggy Tops and
Trimming Materials.
- 16 Pacific Wire Screen Factory, 523 Seventh street..... Model of Screen
Window.
- 31 Palmtag, William, San Benito County. ... California Wines and Brandies
- 6 Paré Bros., 101 Mission street... "Le Merveilleux" Wine and Fruit Press
- 42 Parish, B., Butte County..... Wheat
- 42 Park, H. C., Kern County..... Apricots, Nectarines, Peaches, Pome-
granates and Potatoes.
- 42 Pasch, F., Stanislaus County..... Cherries in Glass
- 42 Patterson, T., San Luis Obispo County..... Fruits
- 31 Paul O. Burns Wine Co., Santa Clara County..... General Display of
California Wines and Brandies.
- 38 Payne, Lillie, 116½ Langdon street..... Infant's Skirt
- 42 Pence, W., Butte County..... Oranges
- 24-29 Pepper, Mrs. W. H., Petaluma..... Two Varieties of Silk, one from
Mulberry and one from Osage Orange, in Sonoma County Display
- 29 Perine, W. D., 809 Oak street, Oakland..... Samples of Roofing Slate
from Chili Bar Quarries, El Dorado County.
- 41 Perkins, Frank, 210 Ellis street..... Visigraph
- 42 Perry, H., San Benito County..... Green Fruit
- 42 Petaluma Cannery, Petaluma..... General Assortment of Fruit in Jars
- 42 Peterson, J. C., Contra Costa County..... Wheat in Grain, and Plums
- 19 Peterson, Peter, Humboldt County..... Redwood Tables
- 30 Pettijohn, W. A., 24 Jessie street..... Breakfast Gem
- 40 Phelan, Miss C., 11 Van Ness avenue Porcelain Painting
- 42 Phelan, William, Humboldt County Potatoes
- 42 Phillips Bros., San Luis Obispo County..... Fruits, Vegetables, Beans,
Grain, etc.
- 42 Phillips, D. D., Sonoma County..... Apples, Pears, Peaches, Prunes and
Plums.
- 29 Phillpott, E., Laidley and Mateo streets..... Plant—Lillium Aratum
- 38-39 Pierce, Miss Mollie E., 2413 Fillmore street..... Needle Etching
- 42 Piper, Mr., Kern County..... Cheese

- 16 Point Blakely Mills, Washington Territory. Sample of Sawn Timber
- 42 Pool, J., San Luis Obispo. Fruit
- 42 Portal, J. D., Santa Clara County. Wine Grapes
- 42 Porter, Robert, Humboldt County. Wool
- 42 Porter, S. N., Stanislaus County .. Crab Apples in Glass
- 42 Porter, Uriah, San Luis Obispo County. Fruit
- 42 Potter, S., Contra Costa County Peaches, Pears and Prunes
- 33 Powers Bros., 735 Market street. Combined Drawing Board and
Writing Desk, Matson's Reading, Language and Number Frame.
- 29 Preston, I. C., Humboldt County. Copper Ore
- 42 Pritchett, G., Stanislaus County. Fruit and Jellies in Glass
- 42 Proctor, D. D., Sonoma County. Apples, Pears and Plums
- 42 Pyle, Mr., Kern County. Cheese
- 29 Quicksilver Mines, San Benito County. Flask of Quicksilver
- 42 Raap, H., Contra Costa County. Apples, Pears, Peaches, Plums,
Prunes, Grapes, Figs, Nuts, Quinces, etc.
- 42 Raap, Mrs. H., Contra Costa County. Preserved Fruit and Jellies,
Figs, Canned Pears and Tomatoes.
- 29 Raap, J., Contra Costa County. Minerals and Fossils
- 29 Raap, O., Contra Costa County. Cherry Gum and Petrified Wood
- 42 Rabe, C., Butte County. Wheat
- 42 Radcliff, R., San Benito County. Wheat in Grain and Sheaf
- 42 Radovich, Bozo. Apples and Pears
- 5-29-28-39 Radovich, L., 306 Kearny street ... Mining Machinery, Chemical
Products, and Specimens of Mineralogy and Curios.
- 8-14 Ransome, E. L., 402 Montgomery street. Ransome's Patent Concrete
Mixer, Ransome's Patent Cement.
- 38 Rapp, Mrs. C., 2820 California street. Knitted Bed-spread
- 16 Rasmussen, W. Model Yacht "Norman"
- 42 Raggis, L., San Benito County. Wheat in Grain and Sheaf
- 42 Read, J. F., San Luis Obispo County. Fruit
- 42 Record, T. B., San Luis Obispo County. Fruit and Vegetables
- 16 Redford, W. Model Yacht "Maria"
- 8 Reid, W. E., 8 Potter street. Steam Washing Machine
- 26 Rennel, Madame, 1020 Market street. Tailor System of Dress Cutting
- 25 Rey, L. L., 1332 Market street. Display of Hats and Manufacture
- 29 Reynolds, E. L., Fresno County. Sample of Ore
- 16 Reynolds & Adams, 547 Brannan street. Hardwood Flooring, Fibrous
Plaster, etc.
- 42 Rice, W., San Luis Obispo County. Vegetables
- 42 Rickett, J. W., Sonoma County. Apples and Peaches
- 30 Rixford, L. P., Sonoma County. Jujube and Pistachio
- 29 Roberts, E. M., Kern County. Banana Tree
- 42 Roberts, J. C., San Luis Obispo County. Fruit and Vegetables

- 42 Robinson, L. L., Contra Costa County.....Grapes, Vegetables, etc
- 42 Rock, John, Santa Clara County..... Apples, Berries and Olive Trees
- 42 Roe, W. V., Butte County..... Apples and Peaches
- 42 Rodgers, E. A., Sonoma County..Apples, Pears, Peaches, Grapes,
Prunes, Melons, etc.
- 42 Rodgers, D. B., Kern County.....Almonds
- 42 Rodgers, D. C., Sonoma County.....Figs and Corn
- 42 Rodgers, P., Contra Costa County.....Bartlett and Claignea Pears
- 29 Rodgers, Will. C., Santa Rosa...A Large Collection of Birds' Eggs
- 29 Romo, Jesus, Stanislaus County.....Tobacco Plant and Tobacco
- 42 Root, A. W., Stanislaus CountyWheat and Tomatoes
- 42 Root, M. B., Stanislaus County.....Crab Apples in Glass
- 29 Roscoe, W. H., Humboldt County.....Petroleum
- 42 Rose, J. P., Santa Clara County.....Green Fruit
- 38 Rosenthal, Miss R., 535 O'Farrell street.....Crochet Lace
- 42 Ross, J., San Benito County.....Wheat in Grain and Sheaf
- 28-42 Ross, W. G., Stanislaus County...Mineral Water and Plums in Glass
- 42 Ross, S. W., Butte County....Apples, Peaches and Quinces
- 41 Rossow, Ernest, 163 Perry street.....Mechanical Drawings
- 42 Rowe, Ira, Stanislaus County ...Fruit in Glass, and Apples
- 29 Rufus, Mrs. E., Sonoma County.....Flowers
- 42 Rutledge, R., San Benito County.....Fruit and Vegetables
- 42 Safford, John, Humboldt County.....2 Varieties of Apples
- 42 Sage, H., Contra Costa CountySoft Shell Almonds
- 10 Salfield, C. D., 216 Kearny street....."Gem" Sauce Pan
- 26-38 Samuels, D., 123 Post street.....Display of India Shawls, Brocade
Velvets, Silks, Laces, Fans, Gloves, Embroidered Table Covers,
Tidies, etc.
- 42 Sanborn, Mr., Sonoma County.....Peaches
- 42 Sanford, S. P., Santa Clara County.....Green Fruit
- 42 San Benito CountyGeneral Display of Farm and Dairy Products
- 8-26 San Francisco Button Factory, Murphy Building.....Button Making
Machine, and Cloth Buttons.
- 8-23 S. F. Chronicle, Bush and Kearny.....Display of Stereotype Plates
Printing Paper, etc.
- 24 San Jose Woolen MillsBlankets in Santa Clara County Display
- 42-29 San Luis Obispo County.....General Display of Farm Products,
Minerals, etc.
- 42 Santa Clara CountyGeneral Display of Farm and Manufactured
Products, Canned Fruits, Nuts, Olive Oil, Wines, Brandies, Ores,
Minerals, etc.
- 42 Santa Rosa Cannery, Santa Rosa...General Assortment of Fruits in Tins
- 42 Santa Rosa Packing Co., Sonoma County.....Pears and Canned Fruits
- 24 Santa Rosa Woolen Mills, Santa Rosa.....Blankets and Flannels in
Sonoma County Display.

- 29 Saunders, S. P., Santa Clara County.....Redwood Knot
- 42 Sawtell, C., Sonoma County.....Pears and Plums
- 31 Schell & Co., Stanislaus County.....California Wines and Brandies
- 1-8 Schenck, W. T. Y., 222 Market street....Display of Flax Packing, Fire Apparatus, Fire Department Supplies, etc.
- 8 Schmidt, E. W.....Working Model of Schmidt's System of Town and House Drainage.
- 10 Schuster Bros. & Co., 306 Sutter street.....Display of Stoves, Ranges and Kitchen Utensils.
- 28 Sea-Sick ConcernRoyal Sea-Sick Troches
- 42 Searles, J. A., San Benito County.....Fruit and Vegetables
- 42 Searles & Stone, Humboldt County.....Oats
- 42 Seconi, J., Butte CountyApples
- 42 Seeley, T., San Luis Obispo CountyFruits
- 2 Seifert, O., 310 Waller streetRotary Pump
- 42 Sevier, W. D., San Luis Obispo County.....Fruits
- 16 Seyden, J. F., 415 Ivy Avenue.....Model of Ship "Gatherer."
- 42 Sharron, Thomas, San Luis Obispo County.....Grain
- 42 Shaw, E., Sonoma CountyPlums
- 42 Shaw, Mrs. I. E., Sonoma County.....Peaches and Oranges
- 42 Shaw, O. B., Sonoma County.....Apples, Peaches, Plums, Prunes, Grapes and Nectarines.
- 42 Shaw, S. H., Sonoma CountyApples, Pears, Peaches, Plums, Nuts, Vegetables, Fruit in Glass and Dried Prunes.
- 41 Sheppard, Dr., Santa RosaFac-simile of the Moabite Stone
- 15 Sherman, W. W., 804½ Folsom street.....Self-Closing Gas Burner
- 38 Sherman, Clay & Co., Kearny and Sutter.....Display of Piano Covers and Scarfs.
- 28 Shipley, Professor R. K., 930 Market streetDisplay of Worm Medicines.
- 42 Shipman, Mr., Santa Clara County.....Green Fruit
- 42 Shirran, Mrs. M., Stanislaus County.....Peaches
- 42 Shivley, W. B., Humboldt County.....Apples, Pears, Peaches, Plums, Nectarines.
- 42 Short, W. N., San Luis Obispo County.....Fruit and Vegetables
- 38 Simon, Mrs. A., 637 Eddy street.....Afgan Sofa Cover
- 4 Simonds Saw Co., 509 Mission streetDisplay of Dodge "Independence" Wood Split Pullings.
- 42 Simpson, W. W., Contra Costa County.....Apples, Prunes, Plums, Pears, Peppers, Tomatoes, etc.
- 42 Sink, W. D., Sonoma County.....Apples, Pears, Peaches, Grapes, Prunes, Plums and Figs.
- 29 Skaggs, Sonoma County.....Sulphur Water from Hot and Cold Springs
- 42 Skaggs, A. S., Sonoma County.....Hops
- 38 Slattery, Kate, 21 Seventh street.....Painted Cushions
- 41 Slinn, J. B., 417 Stockton street.....Silhouettes

- 19 Sloane, W. & J. & Co., 641 Market street.....Display of Carpets, Rugs, Upholstery Goods, etc.
- 10 Smith, Alfred, 5 Torrens Court.....Display of Galvanized Ovens and Ranges.
- 38 Smith, Mrs. Anna J., 2125 Bush street..... Embroidered Quilt
- 28 Smith, Dr. B. J., 1513 Buchanan street.....Caloric Vital Oil
- 42-31 Smith, E. B., Contra Costa County ...Plums, Prunes, Pears, Grapes, Peaches and Crab Apples; California Wines and Brandies.
- 29 Smith, Mrs. E. O., Santa Clara County.....Seed Sign
- 16 Smith, J. H.. ...Model Yacht "Sachem "
- 26 Smith, L. F., Chico, Butte County.Specimens of California Woods
- 38 Smith, Mrs. T. H., 1224 Mission street..... Crochet Spread, Shams and Tidies
- 6 Smith & Martin, San José.....Gold Rocker Churn
- 42 Smith & Son, Stanislaus County.....Fruit in Glass
- 34 Sonnenfeld, S., 331 Kearny street..... Display of Opals, Emeralds, Garnets, Quartz, Onyx, etc.
- 42 Sonoma County.....General Display of Farm and Natural Products, Minerals, Fossils, etc.
- 42 Soto, S., Contra Costa County..... Apples, Peaches and Walnuts
- 41 Southern, T. R., 24 Post Street ... Display of Penmanship, Pen Drawing, Water Color Drawing, etc.
- 24-28 Spaulding, J. & Co., 353 Tehama street.....Cleaned and Renovated Carpets and Rugs, Cleaning Compound.
- 8 Spaulding, George & Co., 414 Clay Street.....The B. & S. New Cylinder Press in Operation.
- 17 Spencer, F. W. & Co., 727 Market street.. Display of Pianos and Organs
- 42 Spenker, Joe, Stanislaus County .. Barley in Sheaf
- 30 Shresovich, L. G. & Co., 505 Sansome street.....Display of Dessicated Coconut and Coconuts.
- 28 Standard Soap Co., Sacramento street. ...Display of Soaps, Perfumery, Candles, Glycerine, etc.
- 42 Staniford, N., Stanislaus County..... Fruit in Glass, Wheat, etc.
- 42 Stanislaus County.....General Display of Farm Products, Minerals, Wines, Brandies, etc.
- 42 Stanley, John P., Santa Rosa..... Two Frames of Pressed Flowers
- 29 State Board of Forestry, Room 35, Flood Building.....Foliage, Cones, Specimens of Botany, etc.
- 42 Steele, E. W., San Luis Obispo County.....Fruits
- 42 Stegomeyer, Henry, Humboldt County.....Plums and Peaches
- 42 Stewart, J. E., Stanislaus County.....Fruit in Glass
- 42 Stewart, J. F., Stanislaus County.....Corn, Wheat and Barley
- 42 Stockton, C., Kern County.....Alfalfa Seed
- 28 Stoddard Bros., Geary and Mason streets....Face Powders, Toilet Soaps, etc.
- 41 Stoermer, F. R., 1129 Mission street.....Scenic Backgrounds and Accessories.

- 38 Stone, Mrs. W. S., Stanislaus County Turkey Feather Fan
- 16 Strand, A., 1016 Mason street.... .. Newel Posts
- 29 Street, C. H. & Co., 415 Montgomery street.. Section of Redwood with
Bark Attached, Bark 25 inches thick, Fresno County.
- 8 Stretton, Samuel B., 17 New Montgomery street..... ..Automatic Horse
Feeder.
- 42 Streeter, D., Butte County..... .. Wheat
- 42 Strentzel, Dr. J., Contra Costa County...Peaches, Pears, Apples, Plums,
Prunes, Oranges, Olives, Walnuts, Hops, etc.
- 42 Strong, J., Kern County.. .. Corn
- 18 Studebaker Bros. Manufacturing Co., 201 Market street..... Landau,
Phaeton, Buggy, Surry, Victoria Carts, etc.
- 16 Stuirfurth, R. E., 674 Natoma street..... Model of Ship "Thiorva"
- 14 Sutcliffe, H., 910 Kearny street.....Adjustable Frames and Grates
- 16 Swan, A. B., 817 Bush street. Auth's Patent Window Glass Setting
- 42 Swan, A., Kern County..... .. Alfalfa
- 42 Sweet, John, Contra Costa County.....Duchess Pears and Apricots
- 19 Taylor, Charles L., 1013 Broadway, Oakland....Display of Folding Beds,
Mantled and Upholstered Furniture.
- 29 Taylor, Mrs. C. L., 709 Bush street Copy of first "Mechanics' Fair
Daily," Printed on Silk.
- 42 Taylor, G. C., Sonoma County.....Pears and Apples
- 42 Taylor, G. O., San Luis Obispo County.....Fruit and Vegetables
- 42 Taylor, J., San Luis Obispo CountyFruit
- 42 Taylor, L. E., Kern CountyPeaches
- 23 Taylor, S. P. & Co., 414 Clay street.....General Display of Wrapping
and Printing Paper.
- 42 Tennee, S. M., Santa Clara CountyVegetables
- 40 Terry, Mrs. J. F., San Mateo County.....Modeling of "Cupid Asleep"
- 42 Terry, R. C., Contra Costa County.....Grapes, Muscat and London
Layer Raisins.
- 30 Thain Bros., 781 Market Street.....Display of Confectionery
- 42 Tharsing, C. N., Stanislaus CountyDried Fruits, Apples, Peaches,
Pears, Plums, Vegetables, Fruit in Glass.
- 6 Thayer, Isaac, Hill and Valencia streets..... Model of Wine Press and
Crusher.
- 29 The California Onyx Co., 419 California street.... Display of California
Onyx.
- 37 The Colby Pacific Testing Machine Co., 207 Battery street...Combination
Testing Machine.
- 41 The Dewey Engraving Co., 220 Market street.....Display of Fine Zinc
Etchings, Photo Fac-simile Engravings, Wood and Wax Engrav-
ings, etc.
- 41 The Forbes Litho Manufacturing Co., 18 California street.... Display of
Albert Type and Lithograph Labels.

- 42 The Gilroy Packing Co., Santa Clara County.....Canned and Preserved Fruits and Vegetables.
- 31 The G. M. Jarvis Co..General Exhibit of California Wines and Brandies
- 38 The Home of Feeble-minded Children, Santa Clara.....Display of School Work and Industrial Training.
- 19 The J. Dewing Co., 813 Market street.....Display of School Apparatus, Desks, Supplies, etc.
- 28 The I. G. Popp Manufacturing Co., 413 Kearny street....Toilet Articles, Tooth Paste, Powders, Soaps, etc.
- 28-30 The J. T. Cutting Co., 25 California streetDisplay of Dr. Price's Baking Powder, Condensed Milk; Highland Brand Canned Goods, Germea, etc.
- 8 The White Sewing Machine Co., 109 Post street.....Display of Sewing Machines.
- 24 Thomas, F., 27 Tenth street.....Display of Cleaned and Dyed Articles
- 42 Thomas, I. H., Visalia, Tulare County. Fresh and Preserved Fruits
- 29 Thomas, I. H., Visalia.....Relic (Drum) of Battle of New Orleans, 1812
- 6 Thomas, J. B., Sonoma County.....Plows
- 42 Thomas, Zach, Sonoma CountyPlums
- 42 Thomasin, Ed., Butte CountyWheat
- 42 Thoron, Captain, Contra Costa County.....Hungarian Prunes, Pears and Melons.
- 38 Thorning, Mrs. C. J., Alameda.....Pair of Crochet Tidies
- 28 Tobias & Co., 934 Howard street.....Carpet-cleaning Compound
- 8 Toohy, C., 200 Davis street.....Patent Tea Stand
- 6 Toulouse & Delorieux, 620 Commercial street.....Wine Press, Grape Crusher and Stemmer Combined.
- 21 Townsend, C. H. & Co., 844 Harrison street...Display of Kitchen Tables
- 18 Truman, Hooker & Co., 421 Market street.....Display of Carriages. Buggies, Carts, etc.
- 8 Tully, James W., 718 Howard street.Model of Hayes' Truck and Fire Escape.
- 38 Turner, Mrs. A. M., 415 Laguna street.....Infant's Crochet Dress and Lady's Apron.
- 42 Turner, G., Stanislaus County...Wheat and Rye in Grain, and Blue Figs
- 38 Tuska, Mrs. W. J., 723 Golden Gate avenueCrazy Quilts and Shams
- 21 Tuson, Wm. Henry, 1054 Broadway, Oakland.....Improved Printers' Brush for Cleaning Type.
- 38 Tyler, Geo. N., Alameda.....Shell Wreath Frame
- 42 Underhill, John, Sonoma County.....Grapes
- 17 Unger, Cress, 763 Harrison street . Display of Banjos, California Make
- 9 Union Fence Manufacturing Co., 117 Main street.....Fence-making Machine and Fence.
- 8 Union Iron Works, Potrero.....Model of U. S. Cruiser "Charleston," Model of Gun, Display of Machinery and Appurtenances of Cruiser "Charleston."

- 28 Union Mattole Wells, Humboldt County.....Crude Petroleum
- 42 Usher, G., Stanislaus County... ..Wheat, Corn, Hemp and Eggs
- 22 Utschig, John, 335 Bush street..... Display of Boots and Shoes
- 16 Vaissade, B., Humboldt County.....1 Bunch Common and 4 Bunches
Fancy Shingles.
- 25 Valentine, R., 222 Kearny street.....Display of Fancy Cassimere, Chin-
chilla, Beavers, etc., for Dress Suits; also Key Cutting System, own
Invention.
- 29-16 Vance, John, Eureka, Humboldt County... ..Immense Plank of Red-
wood, Sections of Pine and Spruce, Block of Granite and Shingles.
- 42 Van Grundy, Bert, San Luis Obispo County.....Fruits
- 16 Vehn, C. C., 2806 Buchanan street.....Model Yacht "Enchantress"
- 42 Venable, Judge McD. R., San Luis Obispo County.Fruits
- 30 Victor, Mills, San Benito County.....Flour
- 8 Vinter, W. C., San Jose... ..Combined Bathtub and Heater
- 42 Voght, K., Stanislaus County Oranges
- 8 Wagner, Fred., U. S. Brewery.....Fire Preventative and Extinguisher
- 15 Wainwright, Wm., 4 Hayes street....Eureka Spray Pumps, Eureka Spray
Nozzle, California Lawn Irrigator, Telegraph Garden Sprinkler.
- 29 Wainwright & Easton, 131 Folsom street... .. Display of Coal
- 42 Wait, B. L., Humboldt County.....Plums, Prunes and Beans
- 42 Wakefield, T. H., Santa Clara County.....Green Fruit
- 8-15 Walter, T. C., 1719 Jessie street.....Model of Fruit Dryer, Water
Filter, Purifier and Cooler Combined.
- 42 Walton, M. A., Contra Costa County.....Preserved Fruit, Dried Peaches
and Prunes, Peaches, etc.
- 42 Ward, David, Humboldt County.....Oats, Barley, Pears and Beans
- 29 Watkins, Mrs. L. J., Santa Clara County.....Ornamental Terra Cotta
- 42 Watson, James, Sonoma County Oats
- 19 Weber & Co., C. F., 300 Post street.....Display of Office and School
Furniture.
- 42 Webster, E. E., Contra Costa County.....Peaches and Oranges
- 42 Webster, J. V., San Luis Obispo County..... Hops and Egyptian Corn
- 6-28 Wellington, B. F., 425 Washington street..... Cog Pruners, Welling-
ton's Improved Egg Food.
- 17 Wells, George F., 1360 Market street.....Display of Pianos, Organs, etc
- 29 Wells, Mrs. Katie, Kern County..... Granite
- 42 Wells, Wm. S., Contra Costa County... ..Japanese Pears
- 36 Welsbach Incandescent Gaslight Co., 805 Market street.....System of
Gas-lighting.
- 18 Weston Top Co., 201 Market street.....Display of Buggy Tops and
Cloths, California Make.
- 23-42 Whitaker, G. W., Sonoma County...Apples, Plums, Wheat and Hemp
- 23 White, H. F., 414 Clay street.....Display of New York Twines
- 8 White Sewing Machine Co., 109 Post street..... Display of Sewing
Machines.

- 42 Whittenmeyer, L. C., Contra Costa County.....Peaches, Plums, etc.
- 42 Whitney, A. T., Sonoma County.....Butter
- 42 Whitney, J. V., San Luis Obispo County.....Fruit
- 40 Whitney, Russell, age 7 years, 773 Eleventh street, Oakland....Specimen
of Wood Carving.
- 39 Whyte & De Rome, 137 Beale streetTwo Ancient Bells, Relics from
Mission Church at San Luis Obispo, made in years 1668-1818.
- 42 Wible, S., Kern County.....Peaches Plums, Vegetables, etc.
- 10 Wiester & Co., 17 New Montgomery street....Kitchen and Household
Furnishing Goods, etc.
- 42 Wilbur, H. C., Butte County.....Wheat
- 42 Wiley, J. W., Sonoma County.....Apples and Peaches
- 11-13 Will & Finck, Phelan Block.....Display of Sporting Goods, Display
of Cutlery, California Make.
- 42 Williams, D. P., Contra Costa County.Plums and Crab Apples
- 42 Williams, H., Contra Costa County....Grapes, Peaches, Plums and Pears
- 38 Williams, Mrs. M., 23 Albion Avenue ...Fancy Needle Work, Infant's
Robe.
- 42 Williams, Mrs. Samuel, Contra Costa County.....Preserved Fruits,
Jellies, Pickled Pears.
- 14-15 Williams, S. G. & Sons, 253 Fourth street....."Eureka" Metal
Grates, "Champion" Overflow Hoppers.
- 8 Willis, M. A., 1804 Mission street..Improved Smoke Stack for Fare Boxes
- 8 Willis & Landgrane, 1804 Mission street.....Fare Box and Change Gate
- 21 Willow Glen Basket Factory, Santa Clara County.....Baskets
- 32 Wilmerding & Co., 214 Front streetPeruvian Bitters
- 38 Wilson, Mrs., Humboldt CountyFancy Mat
- 38 Wilson, Daisy, 121 Shotwell street.....String of Buttons
- 25 Wilson, David, Eureka, Humboldt County.....Walking Canes made of
Redwood Bark, and Redwood Novelties.
- 42 Wilson, D., San Benito County.....Oats in Grain and Sheaf
- 42 Wilson, Elijah, Humboldt County.....Quinces and Three Varieties of
Apples, and Two of Pears.
- 28 Wilson, E. M., 229 Kearny street.....Vaporizing Inhaler
- 42 Wilson & Co., Sonoma County.....Apples and Peaches
- 28 Winans, J. C., 220 Fremont street....Winans' Anti-Encrustation Powder
- 21 Wing Sing Loong, 615 Dupont street.....Japanese Goods
- 38 Winters, Mrs. M., 710 Taylor street.....Lace Quilt
- 42 Winters, T. P., Sonoma CountyGrapes
- 21 Woerner, David, Main and Harrison streets.....Display of Casks and
Beer Kegs.
- 29 Wolff, Mrs., Santa Clara County.....Ornamental Fruit Cones
- 42 Wolsey, E. W. & Son, Sonoma CountyApples, Pears, Dried Peaches
- 42 Wood, Jessie, Butte County.....Dried Fruits
- 35 Woods, E. L., 219 Sansome street....Drapers' Registering Thermometer
- 28 Woodbury, C. J., 123 California street.....Binnacle Oil

- 42 Woodhams, R. S., Santa Clara County..... Green Fruit
- 42 Woolsey, E. W., Sonoma County..... Wool
- 42 Woodworth, C. & S., Sonoma County..... Apples
- 38 Worrall, Miss Clara, 612 Castro street Crazy Quilt
- 24 Wooten, Mrs. P. E., Stanislaus County Two Pair Socks made from
Raw Cotton.
- 42 Wordsworth, J., Sonoma County..... Pears
- 42-29 Wright, R. H., Contra Costa County..... Squash, Petrified Wood and
Fossils.
- 19-33 Wyman, J. F., 104 Market street Wall and Ceiling Manilla,
Improved Blackboard.
- 42 Young, J. V. N., San Luis Obispo County..... Fruit and Vegetables
- 42 Zambellich N., Sonoma County..... Peaches
- 42 Zendener, George, Humboldt County..... Wheat and Oats
- 42 Zendener, Jacob, Humboldt County..... Barley and Oats

SUPPLEMENTAL LIST.

Class.

42	Alter, Isaac, Lake County	Apples, Peaches, Corn, etc.
42	Avery, Mr., Contra Costa County ..	Pears, Prunes and Nectarines
42	Barker, Henry E., Napa City	Late Crawford Peaches
42	Barber, M. R., Contra Costa County ..	California Woods
42	Bassett, W. D., Lake County	Apples and Pears
42	Blankenship, Mr., Contra Costa County ..	Potatoes
42	Bradford Mine, Lake County	Quicksilver
42	Bradley, J. W., Contra Costa County ..	Plums and Pears
42	Butler, P. W., Penryn, Placer County ..	Peaches
42	California Mills, Lake County ...	Flour
42	Coggsell, T., Lake County	Potatoes
42	Chaffin & Raap, Contra Costa County ..	Horse Shoes, etc.
42	Christiansen, A., Contra Costa County ..	Sugar Pumpkins
42	Close, J. E., Contra Costa County ..	Pears
42	Coldwell, D. H., Lake County	Apples
42	Combs, Jas. H., Lake County	Apples, Grain and Pears
42	Cook, Seth, Contra Costa County ..	Almonds
42	Cope, H., Contra Costa County ..	Water Melon
42	Duane, T. S., Contra Costa County ..	Nursery Stock
42	Dunnigan, W., Contra Costa County ..	Oranges
42	Easton, Fred., Contra Costa County ..	Sonora Wheat
42	Eachers, R. P., Lake County	Peaches, Pears, Plums and Apples
42	Fraser, J., Contra Costa County ..	Barley, in sheaf
42	Gwin, C. A., Lake County	Grain, Grapes and Fruit
42	Gwin, A. H., Lake County	Apples
42	Graham, N., Lake County	Apples, Pears, Plums, Nectarines and Vegetables.
42	Haywards, O. E., Contra Costa County ..	Tomatoes
42	Harvey, J. S., San Diego County ..	Lemons and Oranges
42	Hastings, S. C., Lake County	California Wines
42	Herrick, J. F. Contra Costa County ..	Building Stone and Potatoes
42	Highland Springs, Lake County ..	Minerals
42	Holliday, H. B., Contra Costa County ..	Prunes and Tomatoes
42	Howard, Barry, Lake County	Pears, Plums, Prunes and Apples
42	Jones, M., Contra Costa County ..	Bartlett Pears
42	McKillip, D. H., Contra Costa County ..	Oranges
42	Louks, P. G., Contra Costa County ...	Pop Corn, Sweet Corn and Onions
42	Lasalle, Mrs., Contra Costa County ..	Silk Cocoons
42	Lyon, Mrs. Emma, Lake County	Apples, Pears, Plums and Prunes
42	Lyons, Geo. A., Lake County	Apples, Peaches, Plums and Prunes
42	Mall, Jas., Lake County	Apples and Peaches

Class.

42	Marzolo, G., Contra Costa County.....	Broom Corn
42	Merritt, D. R., Lake County	Grain
42	Miner, Mr., Contra Costa County.....	Oil-bearing Rock
42	Mills, W. H., Lake County.....	Apples
42	Munday, W. B., Lake County.....	Peaches, Prunes, Plums, etc.
42	Napthaly, J., Contra Costa County.	Grapes
42	Nottingham, Mrs., Contra Costa County.....	Wild Oats
42	Parkinson, Dr. M. C., Contra Costa County.....	Grapes, Pears, Apples and Almonds.
42	Poe, W. H., Lake County.....	Peaches, Pears, Apples, Plums, etc.
42	Rankin, James, Contra Costa County.....	Coal
42	Raffetto, A., Contra Costa County.....	Broom Corn
42	Riggs, E. C., Lake County.	Peaches, Apples, Pears, Plums, etc.
42	Rogers, M., Contra Costa County	Corn in ear and Egyptian Corn in sheaves.
42	Russi & Sonner, Contra Costa County.....	Flour
42	Sellers, George, Contra Costa County.....	Peaches, Plums, Apples and Raisins.
42	Sellers, Miss, Contra Costa County.....	Silk Cocoon
42	Selby Smelting Works, Contra Costa County.....	Bluestone, Copperas and Shotgun Shells.
42	Scudamore, G., Lake County	Pears, Apples and Prunes
42	Sidell, Mr., Contra Costa County.....	Potatoes
42	Smith, Mrs. C., Lake County.....	Apples, Peaches and Pears
42	Stone, B., Contra Costa County.....	Grapes
41	S. F. News Letter	Artotypes
42	Thomas, D. R., Contra Costa County.	Castor Beans, Plums and Almonds.
42	Thornington, Geo., Lake County.....	Peaches
42	Vecroy, W. R., Lake County.. ..	Potatoes
42	Wagner, Gen. Theo., Contra Costa County	General display of Farm Products, Preserved Fruits, Wines, Pickles, etc.
42	Watt, Mr., Contra Costa County.....	Cotton
42	Weller, B., San Luis Obispo County.. ..	Fruit
42	Welty, Mr., San Luis Obispo County.....	White Australian Wheat
42	West, W. W., Lake County	Apples, Pears and Peaches
42	Williams, R. D., Contra Costa County.....	Fossils, Minerals and Gypsum
42	Wills, T. N., Contra Costa County.....	Peaches, Grapes and Almonds
42	Wolfskill, J. R., Solano County.....	Peaches, Pears and Grapes
42	Wray, E. P., Lake County.....	Peaches, Pears, Plums and Apples
42	Young, W. G., Lake County.....	Peaches, Pears, Plums, Prunes, etc.

CATALOGUE

—OF THE—

ART DEPARTMENT.

OIL PAINTINGS

FROM THE MAGNIFICENT COLLECTION OF S. & G. GUMP.

Title.	Artist.
Gathering Wild Flowers.....	H. Kellner
From Munich Art Exhibition.	
Horses at Pasture.....	Henri Bonnefoy, Paris
Received Third-class Medal, Paris Salon, 1880; received Second-class Medal, Paris Salon, 1884. Hors Concours.	
Picnic Party—On the Bank of River Seine.....	J. Ballavoine, Paris
Received Third-class Medal, Paris Salon, 1880. Painted by the same artist who executed the large painting “Surprised.”	
The Reapers.....	Henri Bonnefoy, Paris
Received Third-class Medal, 1880; received Second-class, 1884. Hors Concours.	
Sheep in Pasture.....	J. B. Hofner, Munich
From the Munich Academy of Art. This celebrated painting is equal to those of the late Belgian artist, Verbockhoven.	
Winter Landscape.....	C. Michaux, Paris
Paysage.....	Paul Emanuel Peraire, Paris
Received Third-class Medal, Paris Salon, 1880. This picture is very similar to those painted by Corot.	
Louis XIV.—Painting the Model.....	Jeanne Rongier, Paris
Sunset in Winter.....	B. Olason, Munich
Purchased at the Academy of Art, Munich. This is one of the finest sunset effects that has ever come to the country, and is highly spoken of by judges of art.	
The Marriage Contract	Muller Lingke, Munich
Purchased at the Academy of Art, Munich. This celebrated painting is one of the best pictures in the whole collection, and the artist is considered in Munich equal to Defregger, under whom he studied. As a work of art it is the equal of any picture which has been exhibited in the Munich Exhibition.	
Seashore at Trouville.	François C. Pecrus, Paris
This fine painting was in the Salon of 1887.	
Moonlight Scene—Marine.....	D. Lange, Munich
From the Munich Art Exhibition.	

- | Title. | Artist. |
|--|---------------------------------------|
| Rebecca and Sibyl (from Sir Walter Scott's Novel, "Ivanhoe"). | Stanley Middleton, Paris |
| Salon painting No. 1,695, 1887. Born in Brooklyn, New York. Pupil of
Jocquesson de la Chesieu Harpinier and Benjamin Constant. | |
| The Hour of Reckoning..... | R. Tarneredy |
| Purchased in London. | |
| The Tempter | Evariste Carpentiers (Belgian Artist) |
| Received Gold Medal at Antwerp. This picture was on exhibition at Brus-
sels, and was highly spoken of by the Brussels and Parisian papers. | |
| Picnic Party—Time of Louis XIV. | L. Ruel |
| Dressing for the Wedding..... | Carl Herpfer, Munich |
| Still Life..... | M. Priffault, Paris |
| Dessert..... | Dominique Rozier, Paris |
| Painting No. 2,103, Paris Salon, 1887. Received Medal Third-class, 1876;
received Medal Second-class, 1880. Hors Concours. He is the prin-
cipal Professor of Still-Life painting in Paris. | |
| The Poultry Yard..... | K. Bobies, Vienna |
| From the Vienna Art Exhibition, 1887. Bobies is a painter very popularly
known in Austria, and his pictures always command high prices. | |
| Entering the Convent..... | Jeanne Rongier, Paris |
| This celebrated painting received in the Paris Salon of 1887 the Third-class
Medal. The painting has been illustrated in the <i>Illustrated London</i>
<i>News</i> of October 1st, 1887, in <i>Harper's Bazar</i> of October 22d, 1887, and
also in the Parisian magazine, <i>Le Monde Illustre</i> , No. 1,592. The
picture is considered by art critics superior to the painting entitled
"Communicans," which was sold at the Morgan art sale in New York
for \$45,500. It was purchased by S. and G. Gump before the awards
were made. Immediately after the awards were declared they were
offered a good bonus by an art dealer, which offer was declined. The
painting exhibited by the same artist in the Salon of 1886 was hon-
orably mentioned, and was purchased by the French Government for
the Luxembourg Art Gallery. | |
| Ideal Head..... | Theo. Kleinschmidt, Munich |
| From the Munich Academy of Art. | |
| Affair of Honor..... | C. A. Smith, Paris |
| Born in Hamburg, Canada. Studied under Benjamin Constant. | |
| The Chess Players | François Charles Pecrus, Paris |
| This painting was purchased in the Paris Salon, 1887. Catalogue No. 1851.
The artist is well known in Europe for his superiority in Cabinet Figure
paintings, and comes nearer to Meissonier, and is even considered by
many to be his equal. | |
| Park Monceau..... | Edmund George Grandjean |
| Another Salon painting of 1887. No. 1089. This picture received from the
judges the award of honorable mention. The paintings by this artist
are generally purchased by Goupil in Paris, who publishes his pictures
in colored photogravure, etc., which find ready sale all over the world. | |
| The Village School..... | Stanley Middleton, Paris |
| Salon painting No. 1695, 1887. Born in Brooklyn, New York. Pupil of
Jocquesson de la Chesieu Harpinier and Benjamin Constant. | |

Title.	Artist
Flower Market by the Madeleine, Paris	Walker d'Acosta, Paris
Studied under Benjamin Constant and Vibert.	
Dessert	Dominique Rozier, Paris
Rising of the Moon	Joinville, Paris
Mischievous House-keeper	Reggianini, Florence
Type of Nobility	Baurey Saurel, Paris
Salon painting 1887, No. 147. Born in Barcelona, Spain. Baurey Saurel is one of the best portrait painters in Paris, and recently the <i>S. F. Chronicle</i> stated that she was painting a portrait for a Countess for the Salon of 1888.	
Fruit and Flowers	Jacques de Laney, Paris
Dessert	M. Pfeiffer, Munich
From the Art Exhibition, Munich. This lady artist is one of the best and most conscientious painters in fruit and flowers. Her paintings are used as studies in the Art Schools.	
La Seine, at St. Denis	Paul Emanuel Peraire, Paris
Received Third-class Medal, Paris Salon, 1880.	
Avenue de Bois du Boulogne	P. Gavarni
Salon Painting of 1887, No. 1006. Received Third-class Medal in 1884.	
The Park Promenade	F. Hennings
From Munich Art Exhibition, 1887.	
Reading Poetry	C. A. Cardini, Rome
A gem of great excellence.	
Entering the Village	Paul Emanuel Peraire, Paris
This artist received Third-class Medal, Paris Salon, 1880.	
Home Comfort	Joinville, Paris
Boat Party	Coessin de la Fosse, Paris
Received Third-class Medal, Paris Salon, 1873.	
Winter in Tyrol, Switzerland	Horst Hacker, Munich
From the Munich Academy of Art.	
The First Lesson	Paul Wagner, Munich
From the Munich Academy of Art. This artist is considered one of the best figure painters in Germany. He executed several commissions for the late King Ludwig of Bavaria. His last commission for him was the picture "Cherubs," for which he received 30,000 marks.	

FROM THE COLLECTION OF J. F. KENNEDY.

Title	Artist.
First Love	Wm. Hahn
Minots' Ledge Light-House, Boston Harbor	S. Weber
Redwood Scene, Mendocino County, Cal.	A. C. Rodrigues
Study of a Head	Oscar Kunath
Night	Virgil Tojetti
Horses	Wm. Hahn
Scene Near Cape Cod, Mass.	R. D. Yelland

GENERAL COLLECTION, OIL PAINTINGS.

Title and Exhibitor.	Artist.
Early Morning	E. D. Betts
Home Again from a Foreign Shore.....	J. Reed Dickinson
Sketches.....	W. W. Armstrong
Steam Schooner "Julia H. Ray"	W. A. Coulter
S. H. Harmon's Camp, Gualala River, Mrs. E. N. Harmon.....	A. L. Harmon
Logging, L. S. Harmon.....	A. L. Harmon
Portrait.....	Addie L. Ballou
Roses.....	Miss E. Williams
Fruit.....	Miss E. Williams
Study.....	Eva Withrow
Winter.....	Eva Withrow
Portrait.....	Wm. Keith
Wood Scene in the High Sierras.....	Wm. Keith
In the Woods.....	Wm. Keith
Austin Creek.....	Wm. Keith
Study of a Door.....	Eva Withrow
A Sunset.....	P. S. Chappelle, Jr.
Dolce far niente.	E. Narjot
Copy after A. Vollou.....	A. Joullin
Monterey.....	F. L. Heath
Portrait.....	Mary H. Whitwell
Sunset near San Diego.....	F. L. Heath
Alaska Glacier.....	Wm. Keith
Copy of Le Retour des Vaches. Vuillefroy.....	R. D. Yelland
Copy after B. Constant.....	A. Joullin
Copy after B. Constant	A. Joullin
Study.....	Eva Withrow
Portrait.....	Wm. Keith
Landscape.....	Wm. Keith
Mount Tacoma (W. T.).....	Thos. Hill
Near Parringford, Isle of Wight, England.....	R. D. Yelland
Portrait. Prof. Joseph Le Conte.....	Wm. Keith
Landscape.....	Wm. Keith
Return from the Opera.....	Emma A. Hale
Copy after B. Constant.....	A. Joullin
A Field of Hollyhocks.....	A. Austin
Sand-dunes, Presidio.....	A. Joullin
Skagg's Springs.....	J. Reed Dickinson
Fruit.....	M. E. Lauden
In Doubt.....	Chas. J. Carlson
Lilacs	Mrs. E. C. Blum
Wild Flowers.....	Alice H. Vincent
California Wild Flowers.....	Alice B. Chittenden

Title and Exhibitor.	Artist.
Wood Scene in Colorado.....	M. Straus
Grapes	M. Bailey
Wood Scene	M. Straus
In the High Sierras.....	Wm. Keith
In the Woods.....	Wm. Keith
Austin Creek	Wm. Keith
Basket of Pansies	Gertrude Matthews
Chrysanthemums.....	Alice B. Chittenden
Royal Arches and Dome, Yosemite	Thos. Hill
Yosemite.....	Thos. Hill
Romneya Colteri.....	Nellie E. Burrell
California Roses.....	Nellie E. Burrell
Still Life	S. M. Brookes
Still Life	S. M. Brookes
Fish.....	S. M. Brookes
Ruins of a Castle.....	P. S. Chappelle
Off Coney Island.....	Norton Bush
Near Greenwood Lake, New Jersey.....	Norton Bush
Copy after Chardin	Emil Carlsen
Dordrecht, (Holland).....	R. D. Yelland
Sketch, Marblehead Neck, Mass.....	R. D. Yelland
Sketch, Moorland Path, Cornwall, England	R. D. Yelland
Sketch, Dyke in Holland.....	R. D. Yelland
Schooner, Yacht Dauntless.....	T. S. Samuels
The Antiquarian	H. Raschen
No Name Creek.....	M. Straus
Rainy Sunset, (Whitney Harbor).....	Stanley Inchbold
Portrait.....	M. Straus
Portrait, Miss Perrier.....	Mrs. Percy Weeks
Landscape, Study.....	J. A. Stanton
Sketch from Nature. (Pateaux).....	Miss Elizabeth Williams
Monterey.....	J. A. Stanton
Landscape near Ingrams.....	J. A. Stanton
A Days's Hunt.....	Nellie E. Burrell
Close Hauled.....	Harry R. Hopps
Japanese Coolies.....	K. Honda, Tokio
Japanese Rice-field.....	N. Haraday, Tokio
Mariner's Son.....	E. D. Betts
Michigan Woods, in March.....	John R. Stites
Roses.....	Miss E. Williams
Roses.....	Alice B. Chittenden
Morning Glories.....	Miss E. Williams
Italian Beggar Boy.....	Emily S. Ryder
Lilies.....	S. E. Bender
Study.....	Kate C. Thompson

Title and Exhibitor.	Artist.
Chrysanthemums.....	Emily S. Ryder
Roses.....	M. Bailey
Alameda.....	H. Philip
Portrait, Exhibited in the Paris Salon, 1887.....	Miss E. Williams
Study from Nature, Puteaux, France.....	Miss E. Williams
Grapes.....	M. Straus
Mountain Cataract.....	M. Straus
Game.....	M. Straus
Mount Everett, Colorado.....	M. Straus
Reed's Dale.....	J. Reed Dickinson
Monterey Bay.....	John A. Stanton
Monterey Beach.....	John A. Stanton
Portrait, Mrs. Capt. J. J. Wolworth.....	Chas. J. Carlson
Bass Fishing (Lake George).....	Thos. Hill
Rachel's Tomb (near Bethlehem).....	W. B. Gifford
Mount Shasta.....	Wm. Keith
Still Life.....	S. M. Brookes
Apples.....	S. M. Brookes
Salmon.....	S. M. Brookes
Portrait, Mrs. Coleman.....	Horace Duesbury
Yosemite.....	Wm. Keith
Edge of the Woods.....	Wm. Keith
Portrait, Don Pearson.....	E. D. Betts
Portrait.....	Eva Withrow
Cape Ann Sands.....	Emil Carlsen
Study, Old Man's Head.....	Horace Duesbury
Portrait, Henry Heyman.....	Fred Yates
Portrait, E. F. Delger.....	E. D. Betts
Portrait, Mr. Santene.....	E. D. Betts
A Gray Day.....	Emil Carlsen
Portrait, Mrs. Coleman.....	Horace Duesbury
Yosemite.....	Wm. Keith
In Napa Valley.....	Wm. Keith
Bull.....	S. M. Brookes
Jersey Cow, Mr. Swett.....	S. M. Brookes
The Hunters' Rest.....	C. Von Perbant
Cod Fish.....	Emil Carlsen
Portrait, Mrs. M. M. Fisher.....	Horace Duesbury
Portrait.....	Eva Withrow
Apples.....	J. R. Stites
The Summer Rain.....	A. C. Rodriguez
Evening in July, Cal.....	A. C. Rodriguez
Peach Blossoms.....	Caribel Stites
Waiting.....	Caribel Stites
Hazy Day.....	J. R. Stites

Title and Exhibitor.	Artist.
Mesozoic Time, or Reptilian Age.....	John R. Stites
Roses.....	M. E. Lauden
Norma.....	E. Narjot
The California Alps.....	Wm. Keith
Golden Gate Park (June).....	Mrs. D. H. James
Twilight and Morning on Mirror Lake....	Jos. Geissler
Picking Berries.....	Myra Brand
Peaches.....	M. Cooley
Bottle.....	Emma A. Hale
Jersey Head, (Study).....	Jennie E. Clark
She.....	Mabelle Peek
Portrait, J. Spodoni.....	A. Bolognesi
Memory's Offering.....	C. Von Adrian
Sweet Sixteen.....	Mabelle Peek
Study from Life.....	Percy Weekes
English Pug Dog.....	Gertrude Mathews
Japanese Pug (from life).....	C. Von Adrian
Cascade Falls, Yosemite.....	Jos. Geissler
San José de Guatemala.....	Jos. Geissler
Yosemite Valley.....	Jos. Geissler
U. S. S. "Hartford" at the Capture of New Orleans.....	W. L. Challoner
Yosemite Valley from Artist Point.....	W. W. Armstrong
Big Trees, Mariposa.....	Jos. Geissler
Basket of Poppies.....	M. L. Thompson
Approaching storm, Panama.....	Jos. Geissler
Sunset, Cliff House.....	Jos. Geissler
Portrait.....	G. H. Burgess
Magnolias from Nature.....	L. L. Nichols
Oranges.....	Miss Mollie E. Pierce
Among the Alps.....	Emily S. Ryder
View of Golden Gate.....	Percy Gray
Fish.....	M. Cooley
China Lilies.....	E. L. Brackett
Ducks.....	Myra Brand
Corsican Peasant Girl.....	B. Lanfranchi
La France Roses.....	Martha Patterson
Portrait.....	T. de Estrella
White Elder.....	Mary Garrette
Study of Peaches.....	E. L. Brackett
Study of Strawberries.....	E. L. Brackett
Russian River.....	T. Hoogs
Pineapples.....	Mary Garrette
White Fish and Black Bass.....	Mary Garrette
Study.....	E. Cabrera
Culm Rest.....	A. Atkinson

Title and Exhibitor.	Artist.
Cameo Painting.....	K. Faust
Flowers de Luce.....	Mary Garrette
Flowers.....	E. L. Brackett
Roses.....	Myra Brand
Fruit Blossoms.....	E. L. Brackett
Violin and Music.....	Fmma A. Hale
The Blind Fiddler.....	Mrs. D. H. James
View from California Street.....	Emily S. Ryder
On the Road to Helen Hunt Jackson's Grave.....	F. L. Heath
Reconciliation, Romans and Sabines, Mrs. D. H. James...	Peter Paul Rubens
Roses.....	E. L. Brackett
Roses....	Mrs. E. L. Blum
Roast of Beef... ..	M. Cooley
Apricots.....	Martha Patterson
Mount Ararat.....	Mrs. J. M. Pierce
Adelaide Nielson.....	L. Radovich
Edwin Forrest.....	L. Radovich
Flowers .. .	L. L. Freeman
Study of Red Roses .. .	M. J. McDevitt
California Roses.....	M. J. McDevitt
La France Roses.....	Edith M. Chevalier
Lady Washingtons.....	Gertrude Mathews
Scriptural Study.....	Miss J. E. Thomas

WATER COLORS.

FROM DR. R. H. PLUMMER'S COLLECTION.

Title.	Artist.
The Piffereri.....	Chev. Indoni
Reading the News.....	Rocchi
Off Plymouth .. .	W. Clarkson Stanfield, R. A
Hunting Dogs Resting.....	J. Langlois
Landscape and Cattle.....	L. Candelle
Taking a Light.....	G. Simoni
A Page of Tasso .. .	F. Nardi
Plums.....	W. H. Hunt
Waiting.....	G. Filosa

GENERAL COLLECTION.

Title and Exhibitor.	Artist.
Pomegranate Blossoms	T. Vassault
Angel Island (from Saucelito).	J. Reed Dickinson
Minnehaha Falls, Minn.	Kate Chandler Thompson
California Wild Flowers.	Marianne Mathieu
California Wild Flowers.	Marianne Mathieu
California Wild Flowers.	Marianne Mathieu
California Wild Snow Plant and Pine Cone.	Marianne Mathieu
California Wild Flowers.	Marianne Mathieu
California Wild Flowers.	Marianne Mathieu
A Glimpse of Home Life.	J. Reed Dickinson
California Wild Flowers.	Marianne Mathieu
California Wild Flowers.	Marianne Mathieu
California Wild Flowers.	Marianne Mathieu
Magdalen.	Oscar Kunath
Fancy Head.	Oscar Kunath
A Fancy Portrait.	Oscar Kunath
Portrait, Miss S. H.	Oscar Kunath
Still Life.	Oscar Kunath
Madonna.	Oscar Kunath
Flirtation.	Oscar Kunath
Wilderness Lake.	G. Douglas Brewerton
Devotion.	Oscar Kunath
Hide and Seek.	Oscar Kunath
The Bride.	Oscar Kunath
Evening.	Oscar Kunath
Night.	Oscar Kunath
Morning.	Oscar Kunath
Noon.	Oscar Kunath
Yosemite Falls.	Hugo Fisher
The Lost Trail.	Hugo Fisher
The Heroic School Teacher.	Hugo Fisher
Nasturtiums.	Mrs. Wm. Irelan
Morning Glories.	Mrs. Wm. Irelan
Sunset in the Antarctic.	G. Douglas Brewerton
The Twig Gatherer.	Eva Withrow
Hillside.	Eva Withrow
Return of Fisher Boats, Lake Constance.	Eva Withrow
Spring, Neberlingen.	Eva Withrow
Bregenz.	Eva Withrow
Sunset.	Eva Withrow
The Old Turk.	Clara McChesney
San Francisco Bay (from Nob Hill).	Stanley Inchbold

Title and Exhibitor.	Artist.
Study.....	Miss J. Phelan
Autumn Days.....	Hugo Fisher
Portrait.....	Geo. H. Burgess
Portrait (Water Color).....	Geo. H. Burgess
The Great Glacier (Canadian Pacific R. R.).....	Stanley Inchbold
Husking Corn.....	Chris. Jorgensen
Thorns and Thistles.....	Emily S. Ryder
Wild Roses	Mrs. Annie Atkins
Flowers	Mrs. H. W. Kelley
Roses	Clara McChesney
Among the Thousand Islands.....	G. Douglas Brewerton
Starting for Home.....	Chris. Jorgensen
The Fisherman's Daughter.....	Chris. Jorgensen
Washington Territory Vine Maple.....	Mrs. Annie Atkins
Study.....	Mrs. H. W. Kelley
Flowers ...	Miss A. P. Phelan
Lake Calhoun, Minn.....	Kate Chandler Thompson
On the Marshes.....	Clara McChesney
A Grey Day on the Marsh Road.....	Clara McChesney
A Fascinating Tail	Miss Annie Atkins
Fort Point.....	Mira M. Mahoney
Night near Munchen.....	Eva Withrow
Storm on Lake Constance.....	Eva Withrow
Arab (after Cast).....	Kate Chandler Thompson
Study of Trees.....	Mira M. Mahoney
Alameda	Helen Philip
Camp Taylor.....	Helen Philip
Aground... ..	Miss N. E. Boyd
Bnttercups (water color).....	Kate Chandler Thompson
Landscape	T. Vassault
Strawberries.....	T. Vassault
Forbes' Mill, Los Gatos.....	Mira M. Mahoney
Beach	S. W. Farnam
Sand Verbenas (Wild).....	Kate C. Thompson
Seal Rocks.....	Mira M. Mahoney
Alameda Marsh, Miss M. Lake.....	Mira M. Mahoney
Cluster of Clematis.....	Edith M. Chevalier
Los Gatos Creek.....	Mira M. Mahoney
Near Ingrams, Mrs. W. M. Dye	Clarkson Dye
Peonies (A Study).....	Edith M. Chevalier
Zip's Head.....	Edith M. Chevalier
Japanese Screen and Flowers.....	Edith M. Chevalier

BLACK AND WHITE DEPARTMENT.

Title and Exhibitor.	Artist.
Pencil Drawings.....	Nellie A. Stearns
Portrait .. .	Emma C. Blum
Reverie.....	Emma C. Blum
Portrait .. .	Pacific Portrait Co.
Portrait.....	Pacific Portrait Co.
Portrait.....	M. J. McDevitt
Portrait .. .	M. J. McDevitt
Photographs.....	Runnels & Stateler
W. Greer Harrison.....	G. Boedewig
Estelle Clayton.....	G. Boedewig
Portrait, Water Color.....	G. Boedewig
Portrait, A. Yellerbach .. .	Julius Lafontaine
Embrace of the Wave.....	G. Boedewig
John Stalu, Crayon Portrait.....	A. K. Kipps
Medea.....	G. Boedewig
Water Colors.....	Pacific Portrait Co.
Portrait.....	J. Suzuki
Portrait.....	Miss C. E. Usher
Portrait.....	H. Boyd
A Greek Lady.....	G. Boedewig
Water Color, Officer Johnson.....	Pacific Portrait Co.
Portrait .. .	Miss C. E. Usher
Portrait, J. Spodoni .. .	A. Bolognesi
Portrait, A. W. Scott.....	J. R. Cochvise
A Study .. .	H. Soloman
Portrait Crayon, J. Spodoni .. .	A. Bolognesi
Copy of the Nazarene, J. Spodoni.....	A. Bolognesi
Interior Palazzo Vicchio, J. Spodoni.....	A. Bolognesi
Study, J. Spodoni.....	A. Bolognesi
Three Crayone .. .	James Murphy
Photographs .. .	Jas. M. Geney
A Jersey Heifer.....	H. Boyd
A Jersey Bull.....	H. Boyd
The Fatal Leap.....	H. Boyd
Group of Palo Alto Celebrities.....	H. Boyd
Normandy.....	H. Boyd
Pointer Dog.....	H. Boyd
Crayon.....	Fanny Cohan
Ben (from life) .. .	Carl Von Adrian
Cliff House, A. W. Manning.....	S. Takishitar
Cornet and Dauntless.....	Geo. H. Earhart

Title and Exhibitor.	Artist.
The Annie	H. Boyd
Beaufort, (Stallion).....	Jennie E. Clark
Portrait, J. Spodoni.....	A. Bolognesi
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait, (Crayon).....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Crayon Drawings.....	Ada Madge
Crayon Portrait.....	H. C. Soloman
Portrait.....	Globe Portrait Co.
Portrait, (Oil)	W. Giselman
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Portrait.....	Globe Portrait Co.
Charlotte Corday	Miss J. E. Thomas
Lion.....	Fanny Cohran
Taking of Sebastopol, (Stone Engraving).....	L. Radovich
Drawings by Pupils of the Girls' High School.....	
Baby in Shell, A. H. Davis.....	Horace Duesbury
Happy Christmas, Cameo Painting, on Fan.....	Mrs. K. Faust
Screen.....	Mrs. F. A. Fish
Screen, (Cupids).....	I. I. Emmons
Roses.....	Miss J. Phelan
Flowers.....	Miss J. Phelan
Plotting Mischief.....	C. S. Newell
The Cobbler.....	Stanley Inchbold
Flowers	C. L. Brackett
Stormy Day.....	Kate Boyd
Photographs.....	James M. Goewey

Classified List of Articles Exhibited

AT THE

Twenty-Third Industrial + Exposition.

As no awards were offered this year, except in Classes 39 and 42, there were no Jurors of Awards appointed or examination of exhibits made by a Committee, except the articles of exhibitors who complied with Rule XV. and gave a written notice of their desire. All such requests were considered and complied with, the matter being referred to the Committee on Rules and Awards, Messrs. Waterhouse, Kerr and Stump, who made the necessary investigations.

In the following report the names of those who applied for special recognition are marked with an asterisk (*):

CLASS 1.

**Steam, Gas and Hot Air Engines, Boilers and Appliances
for Generating and Transmitting Power.**

CHARLES ELLIOT.*—Elliot's Purifier for Steam Boilers.—This invention, for which a U. S. Patent was quoted December 13th, 1887, is claimed to be very important and useful for the purpose designed. The inventor says a boiler at Livermore, in Alameda County, that has been using the worst water in the State, and from which in one week a scale would form $\frac{1}{8}$ of an inch in thickness, four months ago had one of these Purifiers placed on it and has been running ever since without opening. To-day, (Sept. 1st,) the water in the glass water-gauges shows clear, and the iron inside the boilers is as clean as when they first came from the shop.

The invention consists of a closed settler which is placed inside the boiler. It has at one end an open stand-pipe, in which the water stands above the level of that in the body of the settler, and at the other end a pipe leading out of the boiler. The feed-water is forced into the settler in boiler through one branch of this pipe, while the other branch is used to blow off the settler. The outlet or overflow to let the water into the boiler extends down into the settler to trap the floating matter, while its outer end terminates above the level of the water-line in the boiler, but below that of the open end of the stand-pipe. The diameter of the stand-pipe is that of the shortest diameter of the settler.

Its operation is as follows: Water being fed into the settler through the feed-pipe, its impurities sink or rise, as the case may be, and the heated water escapes into the boiler through the overflow, free from all such impurities.

From this novel and simple construction of the settler many advantages arise. Owing to the large size of the stand-pipe and the pressure of the column of water caused by its height above the settler body, the introduction of cold water into the settler does not cause a concussion, dangerous alike to both boiler and purifier and liable to burst the feed-pipe. The absence of any cavity or space in the settler for the accumulation of steam prevents the blowing over of the feed-water with its impurities in the settler into the boiler. The opening of the overflow being above the water-line in the boiler, the water in the latter is not sucked or driven out through the settler, whenever it is blown out, or the volume of water in the settler lessened from any cause. Whenever the settler is blown out, the column of water in the stand-pipe causes the steam to blow through it from end to end, expelling all deposit and effecting a thorough cleansing. In introducing the feed-water into the boiler, it is compelled to flow the whole length of the settler, by which it becomes thoroughly heated and purified.

HAWLEY BROS.' HARDWARE Co.—Straw-burning Engine.—These engines are well known on this Coast, and everywhere have given satisfaction. [See also Classes 6 and 18.]

R. HEWSON.—Rotary Steam Engine.—This device of Mr. Hewson, a well-known inventor of this city, received much attention from mechanics and those interested in the more economical adaptation of steam for the conversion of power. A successful Rotary Engine has been the aim of the inventive mind since the discovery of Watt. Hundreds of patents have been granted for mechanical arrangements to that end, but none have as yet succeeded in successfully superseding the reciprocating engine. The working parts of Mr. Hewson's invention are few, ingenious and very simple, and its introduction may be an era in the application of steam.

T. D. HOSKINS.—Traction Engine and Working Model in Operation.—This invention of a practical mechanic attracted much attention. The larger one was of sufficient size to do practical work, and the model in operation, on a circular track, showed the working parts in a very satisfactory manner. The propelling power is furnished by a small gas-engine with a boiler capacity of carrying the machine twenty-five miles without refilling. The engineer upon his seat has the engine completely under his control, can turn it or back it by altering the pressure upon two levers. The two driving wheels work independently, so that the machine may be turned about within its own diameter. It is claimed to be capable of a speed of twelve miles per hour, will travel the roughest California road, climb a grade of one foot in eight and will haul a heavily laden wagon. Its practical value has been thoroughly tested by a 200-mile journey through Sonoma and Napa Counties. A successful Traction Engine is a great desideratum for this Coast, and the inventor is sanguine that his engine will eventually come into general use.

BYRON JACKSON.*—Automatic Self-oiling Steam Engine.—This engine calls for special mention. Utility, strength, solidity and durability are pre-eminent. The efficiency and economy of steam is claimed to be equal to that of the very best modern Automatic Expansion Engine, while its simplicity, convenience of adjustment and perfect lubrication insure the minimum of repairs and lowest first-cost to the purchaser. Mr. Jackson's Catalogue is an Encyclopedia on the Steam Engine and Pumps, and the cost and methods adapted to this Coast for irrigation and drainage, and is sent free on application. [See also Classes 2 and 6.]

JOSHUA HENDY MACHINE WORKS.—Engines, Boilers, etc.—These works had an interesting exhibit of certain special forms of boilers and engines, among which was a "Kriebel" marine or reversing engine, which possesses the advantages of compactness, light weight, great strength, high speed, with but slight friction and extreme simplicity.

In addition, these engines are provided with a novel and ingenious reversing device, which is far simpler, acts quicker and is easier to manage than the link motion generally adopted in the construction of engines intended for similar duty. The simplicity and ease of attendance of these engines commend them.

There was also a "Kriebel" vertical engine and boiler, mounted on one combined base. It will be noted that this type of engine differs from those of the side-valve pattern, inasmuch as those are fitted with a rocking or vibrating cylinder and stationary valve, instead of a stationary cylinder and moving valve.

By this arrangement of parts the eccentric valve-rod, cross-head and connecting-rod found on side-valve engines are entirely dispensed with, the construction of the engines greatly simplified, and the friction of their wearing surface reduced to a minimum.

There are fewer working parts to be cared for, and they are therefore serviceable, durable and easily attended, and well adapted for use where small and economical powers are required.

The boiler making up this outfit rests on a heavy cast-iron base, having an extension to which the engine is bolted. They are built throughout of steel of 60,000 pounds tensile strength, and have lap-welded wrought-iron tubes. The engine, being connected to the boiler simply by the steam and exhaust pipes, cannot be affected by the heat radiating from the boiler, as it would be were it bolted or attached to the side or top of the boiler. [See also Classes 2 and 5.]

JOHN MAILER.—Furnace Door-Liner and Improved Grate Bar.—Mr. Mailer's Grate Bar is in general use, and receives the highest commendation for its superiority in promoting draft and saving fuel. It is constructed of square mesh sections, with sections staggered and standing apart, so that it shows eight air spaces between two ribs, where the ordinary grate bar shows only one. Are in use in a large per centage of the principal boiler plants on the Pacific Coast, including the boilers of the Exhibition at Pavilion. His Furnace Door-Liners are also highly approved for their non-conducting qualities.

WM. H. OHMEN.*—Thirty-horse power Automatic Cut-off Engine. Mr. Ohmen says:

“The engine on exhibition at the last Fair was a new automatic cut-off engine, a San Francisco invention. The size of the cylinder was 10-in. bore by 12-in. stroke, running 200 revolutions per minute, indicating 40-horse power, cutting off steam at one-fourth stroke. This engine has, for simplicity, no equal, while for economy, durability and steady motion it is second to none. No engine could be made more simple and maintain the points of excellence which this engine possesses. It is of the positive cut-off type, with double valves, shaft governor, hollow plug-balance, oscillating valves (one inside of the other), taking steam through the center and exhausting it underneath. The valve stems do not require any packing; they take up their own wear automatically. There are two eccentrics, one is fast to the engine shaft and operates the main valve direct in the ordinary way, admitting steam and exhausting at proper times, while the other eccentric is loose on the engine shaft, but is worked forward and back by flying weights in governor, and acts direct on cut-off valve, admitting sufficient steam to do the work on the engine. The valves travel in opposite directions, which gives them a quick closure—an important point in a cut-off engine—avoiding wire-drawing of steam, which can be seen from cards taken from this engine. A record of five years’ steady running in some of the most prominent places in this State has proven that this engine is all that is claimed for it.”

L. A. OLSEN.—Patent Brass Tubular Heater.

This heater is very simple, consisting of a wrought-iron box, made of a size to correspond to horse power required, in which a system of horizontal brass tubes are introduced in such a manner that the water must travel through the length of every tube before it can pass into the boiler; and as the whole of the tubes are constantly surrounded by the exhaust steam, the water is brought to the boiling point; and this without causing any back pressure on the engine. No oil can get into the feed water, and if any goes into the heater with the exhaust steam, it can be drawn off by the valves.

This heater can be placed in any position within a building. It can be placed on brackets fastened to the walls. A cheaper kind is made with the tubes of iron instead of brass, but of course not so durable.

W. T. Y. SCHENCK.—Flax Packing of various shapes and sizes, for all kinds of steam purposes. [See also Class 8.]

J. C. WINANS.*—Anti-incrustation Powder or Boiler Compound for removing and preventing scale in Steam Boilers. Also a cabinet showing specimens of the scale and a pyramid made up of the powder—a barrel, half barrel, keg and bottle, all neatly labeled.

This well known compound is a chemical combination of neutral salts having the property of decomposing the noxious salts found in most waters, and of depositing them in bottom of boiler, whence they can be easily washed.

The component parts of the Powder can be changed so as to remedy and

control the injurious peculiarities of any water. Mr. Winans is in the possession of many testimonials as to the efficiency of his compound, and as to the saving effected by its use in the items of repairs, fuel, corrosion and loss of time.

It is proven that it does not at all injuriously affect the iron, and is an efficient agent for cleaning scale already formed.

CLASS 2.

Hydraulic Machinery and Appliances, including Steam Pumps.

W. T. GARRATT & Co.*—Display of Pumps.—As usual, this firm had a fine display and an assortment of the well-known Hooker Pumps, consisting of Patent Deep Well and direct acting Steam Pumps, Richard's Patent Centrifugal Pumps with a capacity of 3,500 gallons per minute, Hall's Patent Duplex Steam Pumps, 8,000 gallons per hour, and an Electric Power Pump, moving 150 gallons per minute. The latter from its novelty attracted much attention.

It is a Triple-Acting Pumping Machine arranged to secure a constant lubrication of the actuating gearing, and to offer a uniform resistance to the driving power.

The lubricating fluid is contained in a separate chamber from the water being pumped; both the driving mechanism and the pump valves are readily accessible through removable covering plates. The water enters at the bottom of a vertical valve chamber so as to pass in a straight course from the inlet to the discharge chamber.

The cranks, connections and driving gearing can be examined while the machine is in motion, and can be adjusted without disturbing the pump chamber.

DOW STEAM PUMP WORKS.—Display of Steam Pumps.

The Dow Steam Pump Works' exhibit embraced pumps for all possible duties, the most noticeable of which were the 8x24-in. Artesian Well Engine, having a capacity of 7,500 gallons per hour; one 8x8x12-in. Vertical Pump for wrecking purposes; an 8x5 $\frac{3}{8}$ x3 $\frac{3}{4}$ x10-in. Differential Plunger Sinking Pump, capacity 3,000 gallons per hour, for mining purposes and excavation work. The action of this pump is perfectly reliable and delivers a steady and continuous stream of water, doing the work quietly and without jar. The Doe Duplex Pump, 8x6x12-in., capacity 18,000 gallons per hour, and the 5x5-in. Dow Patent Three Throw Pump, capacity 300 gallons per minute, to be used with Electric Motor for elevators, etc., as well as the pump mounted on stand for pumping oil, and a complete line of Boiler Feed Pumps, were some of the principal features of this exhibit.

BYRON JACKSON.*—Display of Pumps.

Consisting of a No. 8 "Whirlpool" Centrifugal Pump, capacity 2,000 gallons per minute, driven by a 6x6-inch automatic-expansion self-oiling steam engine, eight-horse power, ten-foot lift. A No. 4 "Whirlpool" Centrifugal Pump, capacity 500 gallons per minute, driven by 6x6-inch Jackson automatic-expansion self-oiling engine, eight-horse power, forty-foot lift. A No. 4 "Whirlpool" Centrifugal Pump, with vertical shaft for working in deep wells or mining shafts, or to be submerged and operated without valves. A No. 3 Jackson "Whirlpool" Centrifugal Pump and Rope Transmission, illustrating the Jackson method of transmitting power in deep wells or mining shafts, or on the banks of a river or other inaccessible position from the power. Jackson's "Whirlpool" Centrifugal knock-down, without paint, showed the quality of material and workmanship, the simplicity of construction and its adaptability for pumping large quantities of mud, sand, gravel, coal, grain, paper pulp, tan bark, meal, molasses, oil, etc., without wear or derangement of parts. Having no tight working-joints, and great capacity with light weight and easily made ready for use, it is particularly adapted for irrigating or draining purposes, or pumping from deep wells, or for use in mining operations, on steam ships for wrecking and in all positions difficult of access.

Mr. Jackson's exhibit of irrigation and drainage machinery, showing complete pumping plant for any and all purposes, was a most complete and attractive display. [See Classes 1 and 6.]

JOSHUA HENDY MACHINE WORKS.—Buffalo Duplex Steam Pump. These works are the selling agents for the Pacific States of this well-known pump. They are very compactly and substantially constructed. All working parts are of extra strength and of the most durable materials. The parts are also made interchangeable, so that in the event of an accident disabling any one part, or by reason of wear, necessitating replacement, duplicates can at once be made.

These pumps are specially designed for heavy duty, as they are positive at any speed and can be easily regulated to perform any service required of them. They claim to have larger pumping capacity in proportion to the volume of steam used than any other style, and are particularly suited for pumping purposes in breweries, oil works, hotels, railway water-stations, contractors' work, bilge and wrecking duty, fire-service, irrigating and other uses. [See Classes 1 and 5.]

OSWALD SEIFERT.—Rotary Pump. Mr. Seifert, the inventor of this pump, says it is constructed on an entirely new principle, the absolute simplicity and durability of which will recommend it to parties requiring a force pump, for any purpose. It will not wear out, as, owing to its novel movement, friction is reduced to a minimum, thereby insuring the greatest amount of work for the least amount of power applied. It is especially adapted for use in mining operations, and can also be utilized for irrigation purposes, as it is easily operated by wind-mill power. The invention is a new one, and this is the first time it has been placed on exhibition.

CLASS 3.

Metal Working Machinery and Tools.

CALIFORNIA WIRE WORKS.—Machines for the Manufacture of Barb Wire and Wire Nails.

The Barb Wire Machine exhibited represents the department in which 30 machines are kept constantly running and turning out about 4000 tons of barb wire per annum, all of which is used on this Coast. The ingenuity of the machine was displayed by the exact manner in which the barbs were inserted and fastened to the main wire and the sharp points formed on them while the automatic twisting and winding part of the machine twists up the wire to a gradual rate of speed and winds it up on spools ready for the market. The Wire Nail Machine was one of 22 machines which this Company has in its Wire Nail Department. The nails produced, run from $\frac{1}{4}$ in. long, made of No. 20 wire, up to 8 in. long made from No. 00 wire. This department has been quite recently started and will turn out from 150 to 200 kegs of nails daily, each weighing 100 pounds. We had occasion to visit the works of the Company and found them actively engaged, employing 275 men, constructing new machinery and extending their plant; and the profits of the concern, we are informed, are all expended in extending their works.

The superiority of these nails over the ordinary cut-nail is well-known, and the commencement of their manufacture on this Coast is an era in our progress of vast importance and direct benefit to all manufactures where wood is used. It is another instance of the energy and indomitable will of Mr. A. S. Hallidie, the enterprising president and manager of the works, who by starting so important an industry adds one more chapter to his record as an inventor, manufacturer and energetic citizen. [See Class 9-21.]

BANKS & Co.—Bolt Cutter. This invention is for the use of wagon-makers and blacksmiths for cutting off bolts and rivets. It is of Californian invention and manufacture.

J. L. HICKS.—Foot Lathes. These useful, ever-ready machines possess some novel features in the tool rest which was attached to a slide standing at an angle of about 50 degrees and raised or lowered by a screw operating the same. [See also Class 7.]

C. F. MARWEDEL.*—Machinists' Tools, etc. This display was particularly attractive to the eye of the mechanic who could appreciate and understand their importance and use. Chucks of various sizes, twist drills, wrenches, calipers, emery wheels—in short everything useful for the machinists' use, except the power machines, were there. A special feature was the moulder's tools of the most approved shape and finish, and all made by Mr. Marwedel or his workmen.

CLASS 4.

Wood-Working Machinery and Appliances.

It is to be regretted that the display in this Class was not more varied and extensive. This city has several manufacturers of improved wood-working machinery, some being especially designed for working the peculiar timber of this Coast.

L. P. GARCIN & SONS.—Display of Lifting Jacks. These Jacks, of Mr. Garcin's own design and manufacture, are meeting with a large sale on this Coast. They are of the rack and pinion variety, made of steel and wood, and exceedingly powerful, strong and servicable. No castings are used, all the metal being forged and the gearing cut by machinery. They are especially adapted to the wants of Loggers and Mill-men, for which a special jack is made, with anti-friction rollers (patented) against the sides of the rack, whereby friction is avoided and power gained.

SIMONDS' SAW Co.—Display of the Dodge "Independence" Wood Split Pulleys. These Pulleys were of various sizes but all of standard quality and finish. The ease in which they can be placed in shafting without taking it from its bearing makes them a most desirable and valuable invention.

CLASS 5.

Mining Machinery and Appliances.

N. BEAUREGARD.—Roller Quartz Mill.

This mill not being in operation no examination of its special merits could be made.

E. G. DENNISTON.—Silver Plated Amalgam Plates for saving gold in quartz gravel and placer mining.

The saving of the gold after it is separated from the ore is one of the principal troubles of the mill-man and metallurgist. Formerly blankets, gunny sacks and other fibrous materials were mainly employed for this purpose. Then came copper plates, but finally these have been superseded by the use of copper sheets plated with silver by voltaic electricity or galvanism. These silvered plates possess great advantages not only over the fabrics mentioned, but also over the unprepared or ordinary sheets of copper, the large amount of quicksilver they are capable of holding enabling them to catch and retain the fine and float gold which escapes these other appliances, the extra quantity of gold so saved paying the entire cost of these articles in a very short time.

They are of simple construction, easily attended and kept in order, and capable of being re-plated when the silver wears off.

Mr. Denniston has in his possession many letters from mill-men and metallurgists on the Pacific Coast, testifying to the superiority of his silverized copper plates. He has also been awarded the first premium at all the fairs of the Mechanics' Institute for the last 15 years.

J. C. GIBSON.—Ore Feeder.

This was a new competitor for favor among mining men; but not being in operation and no description furnished, an extended notice cannot be given.

JOSHUA HENDY MACHINE WORKS.—Ore Feeders.

These Works presented several feeders illustrative of the progress of mechanical ingenuity in feeding ores to a battery, each possessing special merits for their designated use, and showing the great advance that has been made in this department of manufacture.

The "Stanford Improved" and "Tullock" are adapted for feeding dry ores. The "Roller" has certain features which commend its adoption, while the "Hendy Improved Challenge Feeders" are claimed to be superior to any other form devised, and are equally adapted to feeding dry or wet ores.

F. A. HUNTINGTON.—Quartz Mill.

This complete mill was in operation during the Exhibition, and a very attractive feature of the Machinery Department. It was run by electric power and supplied with a Huntington Improved Rock Breaker and a Challenge Ore Feeder. The capacity of the mill exhibited was equal to 10 stamps, and claimed to run with one-third the power. Its operation is as follows:

The ore and water are fed into a hopper when rotating rollers and scrapers throw the ore against a ring die, where it is crushed to any desired fineness by the centrifugal force of the rollers as they roll over it. The water and pulverized ore are thrown against and through the screens when fine enough. The discharge is so perfect that it makes little or no slimes, and leaves the pulp in good condition for concentration. The rollers are suspended, leaving a space of one inch between them and the bottom of the mill, thus allowing them to pass freely over the quicksilver and amalgam without grinding it or throwing it from the mill, while it agitates it sufficiently to make amalgamation perfect. For wet-crushing and gold-saving it is claimed to have no equal; and furthermore, that as compared to stamps, its cost is only one-half, freight to the mine one-fourth, cost of erection at mine one-tenth, and runs with one-third the power. The wear is less than stamps, and the wearing parts are easily duplicated. It saves nine-tenths of the gold in the mill, the rest going to the plates. Its simplicity obviates the need of mechanical skill in setting up. A special claim of merit is that it prevents all flouring of gold or quicksilver.

L. RADOVICH.—Radovich's Patent Ore Crusher and Pulverizer for Assayers' and Miners' use.

This machine weighs ninety pounds, is portable, and can crush four thousand pounds of ore daily. Mr. Radovich claims it to be the most durable, most rapid and decidedly the cheapest rock-reducer in the world.

He also exhibited drawings and plans of Radovich's Horseshoe and Pan

Concentrator and Amalgamator Combined, which, when constructed, he claims is the best, most saving and most simply constructed Concentrator in the world, and can be adjusted to save any grade of sulphurets, amalgam, and free gold, silver and all other metals. The heaviest part weighs less than one hundred pounds, so they can be easily transported in light wagons, or even on the backs of mules over the roughest roads.

Another exhibit was plans of Radovich's Patent Vibrating Roller Quartz Pulverizer, which can be adopted for any other purpose where fineness is needed, such as flouring, oatmeal, coffee, spice and other mills. Also Radovich's Patent Non-Corrosive Lubricating and Cooling Compound for lubricating all kinds of machinery, and more especially adapted to mining machinery, as he claims it does not run or drip, thereby avoiding dust or grit, and the cutting of journals, slides, cross-heads on engines, etc., and, on account of its cleanliness and non-gumming properties, can be used over amalgamating or concentrating pans in safety. [See Class 29.]

CLASS 6.

Agricultural Machinery and Implements, including Windmills.

BAKER & HAMILTON.—General Display of Agricultural Machinery and Implements; also Wagons, Carts, etc., for which see Class 18. This superior display was manufactured at their large and complete works at Benicia, California. The various styles of plows are designed especially for the different kinds of soil of the State, among which the "Peerless" and "Eureka" Gang Plows are particularly well known. The former, owing to its adjustability, works equally well in all kinds of soil, and can be used on side-hill ground; it is fitted with two to six plow shares. The Eureka had been in use in this State for the past fifteen years, and the Eureka Cultivator is built on the same principle as the plow, having the same essential qualities in its construction.

The Gem Seed Sower, in three different styles, for sowing seed broadcast, is well and favorably known.

The Benicia Pulverizer was another implement which received much attention. It is provided with steel knives intended to thoroughly pulverize the soil, no matter what its condition may be; works as well in orchard or vineyard as summer-fallowed land, and will glide over any insuperable obstruction, such as rock, with ease. It can be weighted to any required degree, but for ordinary purposes it is heavy enough.

The Adjustable Garden Harrow was another valuable implement, it accommodating itself to any required width. It is strong and simple, being constructed of angle-iron, well bolted together.

The Benicia Iron Harrow is made of the same material, in sections four feet wide, intended for field work, and can be made as wide as desired by adding sections together.

For crushing grain the Benicia Barley-Crusher was exhibited, which has a capacity of from five to ten tons per day. It has adjustable steel rollers for coarse or fine feed, and is an exceedingly valuable machine for the farmer.

A large number of other machines and implements were included in the display which, as a whole, was most creditable, not only to the enterprising firm, but to the State at large. [See Class 18.]

L. J. GILMAN.*—Patent Attachment to Headers.

This patent consists of a hinged shoe and an adjustable reel, the shoe being attached by a hinge on the front of the main frame and so arranged that it is level at all times. The reel is also so attached that it drops to the ground with the same motion of the shoe and ahead of the cutting bar and fingers, which causes it to lift up all lodged grain; and the knife being the first to come in contact with the grain, so lifting, cuts, and with the level shoe and drapper running on the ground at will, thereby lifting, cutting and saving lodged or short grain, which no other header can do unless hinged as stated. This invention has been demonstrated in the field by a most severe test in this State, and, it is asserted, has never failed to do all that is claimed for it.

HAWLEY BROS.' HARDWARE Co.—Agricultural Machinery and Implements.

The display of this well-known firm was interesting from its variety and arrangement, and occupied a large portion of the annex.

Among the exhibits was a large "Sandwich Corn Sheller" in motion, that will feed and shell, in ten hours, from 1500 to 2000 bushels of corn, carrying the cobs away to almost any required height or distance. It required an old-time farmer, who used a buck-horn or similar instrument for shelling corn, to appreciate this invention. Several smaller ones of the "Keystone" pattern, worked by hand, were also exhibited, their capacity being from 100 to 150 bushels per day. There were also "Keystone" Cider Mills, and Presses combined.

A large display and variety of "John Deere's" Moline Plow were shown in every variety of finish, the finest being decorated in the best style of art. A special feature of these plows is the hardness of the mold-board. The points are of cast steel, and they will scour in an adobe soil where ordinary plows will clog up.

The Vineyard or Orchard Plow has movable handles and movable cleaves, enabling the plowing to be done close to the vines or trees without injury. South Bend Chilled Plows of various styles were also shown.

Another prominent feature of their exhibit was Side-hill Plows, made by R. I. Knapp of Half Moon Bay, Cal. The peculiar method of holding the share by a hook presents many advantages, as the plow may be reversed without stopping the team. The shares are made of $\frac{3}{8}$ steel. By an ingenious arrangement of the rod holding the shares, the plow will do good work on level land. They are made for one or two horses.

The Aspinwall Potato Planter exhibited has strong claims for public favor, being a most ingenious and effective machine, the work being superior to hand and of course much cheaper. The planter is capable of being adjusted to

plant either cut or whole seed 10, 13, 15, 17, 21 and 26 inches apart; also, different depths, and shallow or deep covering can be practiced, as desired.

A large Perkins Windmill was a prominent feature and warranted to be a good, durable, self-regulating wheel. It is composed simply of three parts, the main casting, wheel and rudder, there being no iron weights, side vanes, governing balls, hooks or levers to regulate, so noticeable in other mills.

A Baldwin Hay or Fodder Cutter, Wilson's Bone or Shell Mill for poultry purposes, and many other exhibits of interest to farmers, were in this display. [See also Classes 1 and 18.]

OSGOOD HILTON.*—Giant Churn.

This new churn, just patented by the exhibitor, is claimed to be the best yet invented for the purpose. It will do its work in the shortest space of time, making from five to fifteen per cent. more and better butter, from the same quantity and quality of cream, than any other churn now in use. It is convenient in all respects, compact in form, and the dasher can be used on any container, either square or round, the power being applied in the center on an upright shaft, requiring less power to work it. It has a reverse motion, and the dasher being beveled, a reverse, circular and an up and down, giving four motions to the churn. It also has an air tube by which the gases from the cream arising from the motion it receives in churning can escape, furnishing fresh air for the oxidation of the cream, thereby producing butter which the scientific butter-makers call the Cauliflower Butter. It is hard to that degree that it can be washed and made up as soon as churned. It will churn ripe cream in from one minute and a half to three minutes; unripe cream in from five to ten minutes. There is no stopping to let the gas escape as with the box or barrel churns, as this accomplishes the purpose and furnishes fresh air while the churn is in motion. It can be taken apart with three motions, and with the same number of motions it can be placed together ready for use, all of which is done in an incredibly short space of time. It can be made any size, to churn from one-half to one hundred gallons.

BYRON JACKSON.—Large working models of Jackson's Self-feeder for Threshing Machine; model of "Eclipse" Hay Stacker and Loader; model of "Acme" Rake and Buck combined. The last two illustrating the latest modern methods in making and handling hay in the field. [See Classes 1 and 2.]

B. A. LILLIE.—Fruit Pitting Machine.

The inventor and exhibitor of this very ingenious machine claims it to be the only one yet perfected that will pit peaches, plums and apricots in a perfect manner without injury to the pulp. No doubt it will become a very important factor in canneries, as this machine will do its work as rapidly as the operator can conveniently place the fruit in position by hand. Weight, about 100 pounds.

P. P. MAST & Co.—The Lubin Pulverizer.

This most important implement and addition to California's inventions, attracted much attention. This machine consists of two principal parts:

1st. A set of heavy spring teeth fastened to a pivoted cross-bar. These spring teeth may be set to run any required depth, and can be regulated by the driver while riding on the machine, by means of a lock lever. These spring teeth serve the triple purpose of stirring up the ground, breaking the crust and raising the clods. They also serve as crushing bars, being located so that the teeth of the revolving wheels pass between them.

2d. A series of wheels with chisel-shaped steel teeth on their periphery. These wheels revolve independently on a steel shaft. The teeth project from the wheel about six inches, and are about four inches apart, and as the machine is drawn forward these chisel-shaped teeth revolve between the curved spring teeth or crushing bars in front.

The entire weight of the machine and that of the driver are placed on top of these revolving teeth, in which manner they are forced into the ground. The depth of cultivation is regulated by the depth to which the spring teeth are set.

The curved spring teeth raise the clods from beneath the surface. They are then caught by the revolving teeth, and cannot pass through without being thoroughly crushed; so that not only the surface clods, but those from beneath, are thoroughly pulverized, thereby making a perfect seed-bed for whatever may be thereafter planted. They are made in three sizes.

PARE BROS.*—"Le Merveilleux" Wine and Cider Press.

The press shown was of the size known as No. 5, medium size, having a diameter of basket of 63 inches. Presses of this make are very simple and powerful in their construction and very easily operated, and apparently not at all liable to get out of order. All parts are interchangeable and easily duplicated, and therefore there is very little expense in replacing a lost or injured portion. It is built on the ratchet principle, with a double-acting lever, and has no lost motion. The most obvious features of this press are the great power which it applies and the fact that the lever is double-acting, thereby increasing the speed with which the operation of crushing can be carried on as it is continued by the return stroke. With a power of 150 pounds applied to the end of the lever (100 inches) a pressure of 15,000 pounds is obtained. "Le Merveilleux" is mounted on strong, substantial wheels and can be readily moved from place to place.

SMITH & MARTIN.*—Gold Rocker Churn.

This churn is probably the simplest yet invented—simpler than the old dasher churn. It is only a straight barrel of suitable size and length, placed on rockers which may be attached to a chair or operated by hand or foot. When moved, the cream rushes from end to end and is soon converted into butter. It is the invention of Mr. Doty, an old California miner, who got the idea from the cradle so often rocked by the old Forty-niners.

ISAAC THAYER.*—Working Model of Wine Press Grape-Crusher and Stemmer, in operation.

This machine, known as "Thayer's Monarch Wine Press and Crusher," has several peculiarities and many merits. One of its main features consists of a

pair of corrugated rubber-covered rollers, one set over the other, each made from 8 to 12 inches in diameter and from 20 to 36 inches in length. The frames of these rollers are of cast iron which are covered with pure rubber one inch thick. The rubber covers have deep corrugations which fit into each other. The pressure between the rollers can be regulated. All solid matters like seeds, stems and skins, are carried through by the rollers; the grape juice, remaining back and falling through a sieve, runs off through troughs.

This machine shows great speed and efficiency. The model on exhibition was kept in constant operation crushing grapes every day, and it attracted great attention from those interested in wine-making.

J. B. THOMAS.—Display of Plows.

This exhibit consisted of five hand-plows and one sulky plow, well made and adapted to general use.

TOULOUSE & DELORIEUX.*—Wine Press, Grape Crusher and Stemmer Combined.

The exhibitors of this press say that with its double-action levers it will do from 15 to 20 per cent. more work than the ordinary presses, and that, by connecting the two levers, they are able to give the press from 20 to 25 per cent. more power, which enables one to more thoroughly press the grape. With the round carriages they are able to handle the press more freely in the vineyard than with a square one.

They further say that, with the crushers and stemmers combined, not only are they able to do more work, but the work is done better and in less time than with any other in use in this State.

B. F. WELLINGTON.—Cog Pruners, and Improved Egg-Food for Poultry.

The pruners were operated on the rack and pinion principle, giving very great power. His egg-food has an extensive sale all over the coast, and is considered a profitable feed. It is presumed the price is uniform, notwithstanding the great fluctuation in the price of eggs.

CLASS 7.

Weaving Machines, Sewing Machines, Knitting Machines and Accessories.

[Exhibitors in this class will look in the following class (8) for notice of their display.]

CLASS 8.

Miscellaneous Machinery and Appliances not included in other classifications.

H. ALBERT.—Albert's Automatic Safety Elevator.—(Model.)

The only thing that can be said of this invention is, that the model was well made, and may be of value when put in practical operation.

EUGENE AMIOT.—Towel Hanger.

No special merit was observed in this device.

CALIFORNIA WIRE WORKS.—[See Classes 3-9-21.]

EDWARD CAVANAUGH.—Freight Car Coupling.

This coupler, to all appearances, is similar to the old link and pin movement, with the exception that the inventor has made it, by a simple contrivance, automatic. The improvement consists in the movement of the *pin*, the head of which moves on a circle when struck by the link, *causing the pin to fly up* and then fall back again by its own gravity.

A. COLOMBAT.—Jacquard Loom in operation.

This was one of the most interesting exhibits in the Pavilion, and was always surrounded by an appreciative group. The principal work done was in weaving badges of the two candidates for President and Vice-President whose fates were decided on November 6th, which were eagerly purchased by their respective admirers. It is quite probable if the cash received by the manufacturer had been kept separate, its count would have proved a valuable straw to show which way the political wind blew. We believe this to be the only Jacquard loom on this Coast, and is a very imposing machine, with its countless threads running from top to bottom. It is principally used for gimps and fringes. The fidelity with which this wondrous machine, with web and woof of silken thread, wove a picture of life-like resemblance, was a source of astonishment to many, and a keen delight to the skilled mechanic, who saw in its tireless accurate work the soul and fingers of the great inventor. Such instructive and interesting exhibits should be more general in these Expositions.

MRS. F. FISCHER.—French Embroidery machine and fine display of embroidered Portieres, Tidies, Cushions, Mantle-boards, etc., all done on the machine, which operates equally well on cloth, silk or leather. It deserved and attracted much attention from visitors.

CIPHERS & MARTIN.—Pop-Corn Machine in operation.

No machine in the Fair was operated with as much profit or received so much of the children's attention as this one did. The popping of corn and

its peculiar odor brought to many an aged man and woman present tender recollections of the long ago. The number of pop-corn balls made during the Exposition, if given, would seem incredible.

JOHN CRAIG.—Model of an Improved Patent Railway Guard.

The model shown was very complete, including cars and track.

DAILY EXAMINER.—Display of Stereotype Plates and Rolls of Paper.

As, at a previous Fair, the *Examiner* made a fine display of the materials used in the publication of the "Monarch of the Dailies"—as they are pleased to name the paper that has taken a front rank in newspaperdom.

DAILY REPORT.—Display of Stereotype Plates, as used in their New and Improved Press.

A very fine exhibit of that branch of the printer's art.

T. H. DRURY.—Models of the Brick and Hay Press.

These models were principally made with a jack-knife; and if the full-sized machines do not work better than those shown, the demand will be limited.

ESTATE OF SAMUEL HILL.—Display of Caligraphs.

This was a fine exhibit of these well-known and perfect writing machines. Competent operators were constantly in attendance to explain and show their qualities and ease in writing. Many samples of writing were distributed to visitors.

FAIR DAILY.—A newspaper printed each day in the Pavilion during the Exposition, James G. Spaulding, proprietor.

This was quite a feature of the Fair, and each evening, at the hour of printing and delivery, the space around the press was crowded with visitors eager to secure a copy. It was edited with much vigor and good taste, and the management was very satisfactory to the Directors of the Exhibition. The descriptive articles on the Exhibits were well written, the society notes and mention of notable persons and visitors, as a general thing, well received, and the criticisms duly appreciated.

A new and improved printing press, "The B. & S. New Cylinder," was placed in the Fair by Mr. Spaulding for the occasion, which in itself was a fine exhibit. The peculiar feature of the press was its bed-driving mechanism, which secured an increase of speed with a smooth and almost noiseless motion.

GOLDEN GATE AUTOMATIC STREET AND STATION INDICATOR.*—The object is to indicate to passengers on railroad cars, propelled by horse, cable or steam-power, the streets or stations as they are approached. The special merit of this indicator is, that it derives its motive power direct from the car axle, and does not depend upon any bumper or projection on the track. Also that it registers the streets or stations at any interval, whether regular or irregular distances. Also that it reverses automatically at the end of the road when the car turns, and shows the streets or stations in the proper order on the down or return trip.

N. C. HAWKS.—Paper Jogger.

The Sedgwick "Paper Jogger" is an attachment for cylinder and Adams presses for jogging or straightening up the paper after it is delivered from the fly. N. C. Hawks, 320 Battery street, San Francisco, is the Pacific Coast agent. No cylinder press is complete without it, for it does its work better than it can be done by hand, and jobs do not have to lie around waiting for the pressman to "get time" to straighten them up. No sheets are soiled, and thus neatness as well as dispatch is secured. It was in operation on the press of the *Fair Daily*.

H. A. HEBARD.*—Display of the Love Button-Hole and Sewing Machine.

This is the first exhibition made of this machine on this Coast. It certainly combines many merits and possesses some advantages peculiar to itself. The claim of the manufacturers that it is a practical Button-Hole Machine for family use is fully borne out, and at the same time it is a complete sewing machine, combining the best features and latest improvements in modern sewing machines. The Button-hole device is a simple part of the machine, and does not require removal to change from button-hole work to ordinary family sewing. The machine does hemming, felling, braiding, binding, tucking, ruffling, cording, etc., in fact, everything in the range of family sewing and light manufacturing work. The Love is constructed of the best material, the cabinet work is especially good, and the machine combines beauty, durability and adaptation to its various uses.

J. L. HICKS.—"Help-mate" and "New York" Sewing Machines.

Being a thorough mechanic, Mr. Hicks' explanation of sewing machines in general, and his in particular, was instructive and interesting.

O. G. HOPKINS.—The "Miller" Hand Chemical Engine.

The properties of these engines are well known, and in many cases their use has been invaluable.

W. J. LOCKE.*—Knock-down Crate.

The inventor of this Crate says:—"There has long been a demand for a box which could be easily taken apart and put together, combined with strength, durability and cheapness, for the simple reason that boxes of all kinds require as much storage-room when empty, as when in use. We have contrived a box having all of these qualities, and more. As for strength, it is four or five times as strong as an ordinary nailed box of same dimensions."

A. W. H. MAC EWING.—(See Class 35.)

WESLEY MOCK.—Car Coupling.

The inventor of this coupling says that it will couple any car with a link and pin that is not more than six inches above or below the center of the coupler, without any attention; and is no more liable to uncouple than the common one now in use.

MORNING CALL.—Display of Stereotype Plates and Publications.

The display of this old and well-known journal was neatly arranged, showing the various stages from type to finished plates.

JAMES O'DONNELL.—Model of a Patent Rotary Valve for Steam Engines.

Mr. O'Donnell claimed much and showed but little in the model exhibited. The practicability of such inventions can only be demonstrated under steam pressure.

E. L. RANSOME.—Patent Concrete Mixing Machine.

A patent was granted for these machines in 1885, and they are designed to take the place of hand labor in mixing concrete. They can be operated either by steam or horse power. With these machines three men and a boy, with one horse power, can mix as much concrete as fifteen men can by hand labor. These machines can be made of any size suitable for any kind of work and can be placed in any required position. Material can be dumped into them direct from the barrow, cart or wagon, and, after mixing, be discharged direct into any vehicle. The Spring Valley Water Works are operating six of these machines with great success in the construction of their big dam.

W. E. REID.*—Steam Washing Machine "Laundry Queen."

This machine is claimed to do very superior work. It is strong and light and fits any stove. Being made entirely of metal, it is durable, and the pressure and steam removes the dirt and grease from clothes rapidly and without injury.

SAN FRANCISCO BUTTON FACTORY.*—Exhibit of superior quality of covered Buttons of all descriptions, for tailors, cloak and dress makers, upholsterers, carriage trimmers, etc., made on the celebrated "Wade Button Machine," also exhibited. The machine is a late invention and the first in use on this Coast. Its rapid and ingenious work was an attractive feature.

THE S. F. CHRONICLE DISPLAY.—According to its usual custom the *San Francisco Chronicle* made a handsome exhibit on the main floor of the building, occupying an area of about 400 square feet. The display consisted of an exhibition of the stages of the stereotyping process, and showed the matrix bearing the impress of the type, the stereotype metal cylinder cast from the matrix, and, finally, the paper printed from the casting on the *Chronicle* Hoe presses. Along one of the counters the cylindrical stereotyping plates were arranged, and behind them the matrices. Two framed copies of very old papers attracted much attention and amply illustrated the advances made "in the art preservative." The huge rolls of paper which are run off on the presses, and reappear folded and printed papers, were also represented by two of their number, first as they arrive from the paper mills. Each of these rolls when unwrapped is half a mile long. The *Chronicle* also exhibited a number of the premiums which go with the weekly edition of the paper. Noticeable among these were the Premium Sewing Machine, the Premium Maps, the *Chronicle* Sporting Outfit, and other useful premiums.

W. T. Y. SCHENCK.—Fire Apparatus and Fire Department Supplies.

This fine exhibit consisted of a full line of the different brands of cotton rubber-lined, fire and garden hose, for which he is agent on this Coast, and a number of pieces of Fire Department apparatus of which he is the manufacturer.

Among the former we find the celebrated "Paragon" brand of cotton fire-hose, which we understand is now in use in over fifty Fire Departments in this State. And among the latter are a beautifully-finished, handsomely-painted "Tournament" Hose Cart, with nickel-plated trimmings, a handsome village hook-and-ladder truck, several warehouse hose carts, a full line of hose-pipes, nozzles, etc., and samples of the celebrated "Paragon" hose reel, (an invention of Mr. Schenk's), and by which it is claimed a stream of water can be gotten on a fire, through 100 feet of hose, in 30 seconds.

The display was attractively arranged and the exhibition of the fire apparatus was a representative of one of the new industries of this Coast.

E. W. SCHMIDT.—Schmidt's System of Town and House Drainage.

This system, which was exemplified by a working model on exhibition, has received testimonials as to its sanitary efficiency from many leading architects, and was also approved, after examination, by the late Dr. Meares, for many years Health Officer of the City and County of San Francisco. This system can be applied to the drains of existing buildings with comparatively little trouble or cost. Its essential features and merits are: first, immunity from sewer-gas entering house drains from street sewers; secondly, complete ventilation of house drains; thirdly, perfect automatic flushing of the house drain. The inventor claims that with a six-inch drain, using a perfectly-placed exhaust cowl at end of ventilating shaft, 400 cubic feet of fresh air can pass through the house drain per minute. The Schmidt system has been tried and is in operation at the mansion of Mr. Davis, corner Pacific and Franklin streets, San Francisco.

JAMES G. SPAULDING.—(See *Fair Daily*.)

SAMUEL B. STRETTON.—Automatic Horse-Feeder.

This exhibit received much attention from owners of horses. By a special clock-work arrangement it can be set to deposit in the oats or feed-box the required quantity at any hour, day or night. It is especially valuable to marketmen, grocers, truckmen and all others who would like their horses fed early, before they arrive at the stable.

THE WHITE SEWING MACHINE COMPANY.—Display of Sewing Machines and Work.

In the matter of sewing machines it might have been supposed that the *ultima thule* must have been reached several years ago, when, with the hemming, tucking and felling attachments, the housewife deemed herself lifted above and beyond much of the domestic drudgery inseparable from the home manufacture of her own and her children's garments. The exhibit of artistic work done by these machines was an unusually attractive feature of the Fair. Remarkable for its perfection and wonderful in that such dainty creations are but the every-day work of a prosaic sewing machine, of which no special genius in the operator is necessary. Among the articles shown were a mantel lambrequin upon which were three pictures, wonderfully-fine imitations of hand-etchings on copper; also an etching of Pharaoh's Horses, on white satin, perfect in drawing and shading; another represented six little downy and

diminutive ducklings, on black satin. There were also two sets of lace *portières*, one covered with lilacs interspersed with snow-balls and foliage peculiar to that flower, embroidered upon green satin and then transferred to lace. The other was bestrewn with roses and rosebuds and appropriate foliage, requiring a critical inspection to correct a natural belief that they were hand-painted. Yet another notable picture, perfect in line, color and shading, was that of a peacock.

All these works of art were wrought upon an ordinary, every-day Household Sewing Machine, with the aid of such simple appliances as are sold with it, which, while producing such high-art evidences of superiority, is yet capable of sewing a shirt or stitching a pair of overalls.

C. TOOHEY.*—Grocers' Show Stands.

These stands (a California invention), are certainly admirably adapted for grocers' use as receptacles for Teas, Coffees, Spices and ground goods generally. They furnish the most attractive method we have yet seen, in which a retail grocer or Tea-man, can display his teas, coffees and spices. The stands are very nicely finished and the stock for selling purposes is available from the rear portion of tin, by a neat sliding door, which admits the scoop without disturbing the front appearance through the glass, the samples being retained in a compartment behind the glass front which can be handsomely lettered according to the variety contained. The structure rests upon double reversible castors, and is therefore readily removable to any part of the store. They are made here, are a San Francisco invention and are unequalled for the purposes mentioned.

JAMES W. TULLY.—Model of Hayes' Hook and Ladder Truck, with all the Appurtenances which are used by the Truck Companies of this city.

This was a fine specimen of mechanical work, as every detail and action of the full-sized apparatus were faithfully reproduced, all the parts being in exact proportion, perfect construction and highly finished.

UNION IRON WORKS.—The following comprehensive Exhibit was made by this firm:

- 1st. A complete model of the U. S. Cruiser "Charleston."
- 2d. Hand Steering-Gear. Wheels made of mahogany, locust, white holly, and Hub of bronze, with all the appurtenances complete, manufactured in San Francisco.
- 3d. An Anchor Davit, with crane-post, complete.
- 4th. Fish Hook for Anchor, showing great skill in forging, and a specimen of galvanized work.
- 5th. Forged Shackle Chain Stopper.
- 6th. Forged Deck-eye Plate, Ring-bolts and Cleats. All these are very difficult forgings to make, and were so skillfully made that they have received the unqualified praise of the Government Inspectors.
- 7th & 8th. A 10-inch Copper Ventilator, and a 39-inch Copper Fire-room Ventilator, both specimens of copper-work made at the Union Iron Works.
- 9th. Blowing Engine for forced draught.

- 10th. Full-size model of 10-inch Breech-loading Rifle Gun.
- 11th. Model of Cartridge and Projectile for 10-inch Breech-loading Rifle Gun.
- 12th. Bronze Search Light Bridge, all highly finished.
- 13th. Cabin Sky-light, of teak, brass-mounted.
- 14th. Forged Awning Stanchion, with brace.
- 15th. Section of Cabin Finish, made of California sycamore, showing the style of finish to be used throughout the ship.
- 16th. Blue Prints. Outside plan of the Cruisers "Charleston," and "San Francisco."

All of this exhibit was made in San Francisco, by San Francisco workmen, and of domestic materials, and all, except the models, to be used on board the Cruiser "Charleston."

The Committee of Awards, in selecting the exhibit best entitled to the Institute Medal, unanimously decided that the exhibit of the Union Iron Works was the most deserving. The display was an honor to our State, a source of pride to our citizens and a credit to the manufacturers. It was fully worthy of the highest award the Institute could bestow.

W. H. VINTER.—Combined Bath-tub and Heater.

This invention is so constructed as to heat the water after it is in the tub, without the aid of the usual circulating boiler, water-back in stove, and pipe-system, thus avoiding the large outlay usually incurred in attaining the result. It also combines convenience and economy, both in apparatus and in fuel. It can be used with either gas, gasoline or coal oil. It is so constructed as to be portable, thus making it convenient to persons renting houses.

FRED WAGNER.—Fire Preventive and Extinguisher.

This invention consists of a series of perforated water-pipes placed in such positions as will, on a moment's notice, almost deluge the inflammable parts of a building where applied. The inventor says it is largely in use in Europe, particularly in theatres, for which it is especially valuable.

T. C. WALTER.—Filter and Purifier Combined.

This exhibit attracted great attention, and, being in operation, thousands availed themselves of the opportunity of securing and drinking a glass of pure water. The water drawn from this filter and purifier looked perfectly pure and clear, and was a much more agreeable beverage than the ordinary San Francisco drinking water. The apparatus is so attached to the supply pipe that all the water used must pass through the filter. After the water is filtered it passes into a purifier, which appears to successfully remove the impurities held in solution. The whole apparatus is intended to be used as a subterranean filter and purifier, and there is no need of a tank on the top of a house. The operation of cleansing is very simple; it can be cleaned by merely reversing the blow-off cocks. An advantage connected with this invention is, that drinking-water can be cooled without the use of ice by simply placing the purifier in a position where it can be enveloped in wet cloths or damp earth. [See Class 15.]

M. A. WILLIS.—Improved Smoke Stack for Fare Boxes; used on double-ender street cars when the box is shifted from end to end of car. It is a telescopic pipe, and slides up out of the way when the box is removed from the opening; it is designed to replace the unsightly and smoke-leaking fixtures heretofore used on such cars. It was invented by Mr. Willis.

WILLIS & LANDGRANE.—Fare Box and Change-gate for Street Cars.

For the fare box they claim absolute safety from robbery, except by violence; also convenience in cleaning, neatness in appearance, lightness and durability. For the change-gate they claim simplicity of construction, durability, certainty of action and neatness in appearance.

UNION FENCE MANUFACTURING COMPANY.—Fence-making Machine in operation, and Specimen of Fence.

This display of an immensely-growing industry and important product was always surrounded by interested spectators. Its cheapness, utility and great value to the farmer and viticulturist are being appreciated, and it is now used throughout the State. The ease with which this fence can be shipped and set up, and the perfect protection it insures against small animals as well as large, commend it to every agriculturist.

CLASS 9.

Iron, Steel, Lead, Copper, Brass, etc.

MISS ANNA BOLE.—Pair of Horse Shoes.

This exhibit, by a young Miss but 16 years of age, was a fine specimen of workmanship. They were made by her own hands, without any assistance. In form and finish the shoes were equal to the best made by practical workmen.

BOYD & MORGAN, (Stockton, Cal.)—Case of Horse Shoes.

These were exhibited in a large case and comprised various shapes, designed for every variety and condition of horseflesh.

CALIFORNIA HORSE SHOE COMPANY.—Display of Horse Shoes.

This was a very large exhibit of machine-made horse shoes from their extensive works at the Potrero, adjoining the Rolling Mills. The plant of the Company is of the most improved kind, and, no doubt, will soon be able to supply the demand of this Coast, which has heretofore imported immense numbers of that necessary article.

CALIFORNIA WIRE WORKS.—General Exhibit of Wire and the Products of Wire.

This Company showed the wire in the various stages of manufacture and in size running from $\frac{3}{8}$ to 1 inch in diameter, and the same wire wrought into every conceivable shape and form. The wire ropes and cables manufactured

for mining purposes, street railways, shipping and other purposes were displayed in sizes running from $\frac{1}{8}$ to $2\frac{1}{2}$ inches in diameter. Sub-marine telegraph cables from $\frac{1}{2}$ to $1\frac{1}{2}$ inches in diameter; ship rigging of every conceivable size; wire-cloth woven out of wire of the fineness of a hair and having 3,600 holes to the square inch to one hole to the square inch, was displayed. Springs for heavy counter balances, mattresses, sofas, and delicate springs little larger than watch springs, were exhibited. Barb wire for fencing, 2 and 4 point, galvanized and painted, on spools, as also strand and plain wire for the same purpose, were in the display.

In ornamental wire-work they showed a fine display of summer houses, aviaries, cages, etc., while in light iron-work a display of forms wrought into fences, gates and guards were more or less elaborate and beautiful in their design.

There was a very good display of wire railing, and generally every conceivable thing that can be made from wire was shown in their exhibit, which was arranged in an exceedingly tasteful manner.

ABNER DOBLE.—Display of Steel and Copper Tools, etc.

Doble's display consisted of an artistically-arranged wall-exhibit of a few of the various goods manufactured by him, and also some goods of Eastern manufacture for which he is agent. It was made up of blacksmith's, horse-shoer's, stone-cutter's, paver's, machinist's, lumbering, mining and contractor's tools, John Wright's celebrated picks and pick-eyes, Cleveland Twist Drills, and steel and copper plates from the Black Diamond Steel Works and Lake Superior Copper Mills of Park, Brother & Co., Limited, at Pittsburgh, Penn.

The most striking features of the display were a rolled plate of Pure Lake Superior copper, five and one-half feet wide and ten feet long, weighing about five hundred pounds. Also a rolled plate of Homogeneous Boiler Steel, five-sixteenths by forty-nine by one hundred and seventy-five inches. Also some very fine specimens of "flanged" work, which gave proof of the excellent quality of the boiler steel made by the Black Diamond Steel Works.

PACIFIC COPPER WORKS.—[See Class 15.]

UNION FENCE MANUFACTURING Co.—[See Class 8.]

WHYTE & DE ROME.—Two Old Bells.

The following account, taken from the *S. F. Bulletin*, is of interest:

"These two historic bells of the San Luis Obispo Mission are now the property of Whyte & De Rome of the Globe Brass Foundry of this city. They were transferred to the foundry by the Mission priest, in part payment for a new bell which had been ordered, but for which the parish was unable to pay. Both were constructed in Spain, the smaller one in 1668, the larger in 1818. They are green with age, battered and nicked, and although their tongues have been taken out they are almost speaking witnesses of four generations of Californians who have crossed themselves and turned their thoughts heavenward whenever their tones were heard reverberating among the San Luis Obispo hills. The vessel that brought the sacred bells from Spain was wrecked on its voyage to

the distant shore of California, and these two bits of metal are all that was saved from the wreck. Tradition recounts how the Spanish sailors, at the behest of their chaplain, sacrificed their goods, even their golden doubloons in their effort to save the bells. Some of them lost their lives, but this was deemed a light sacrifice in so great a cause. These bells which have hung in the crumbling arches of the old Mission for a century have been cherished by the San Luis Obispo people, both Catholic and Protestant, with almost affectionate regard, and it was with considerable sadness that they saw them depart for a San Francisco foundry. An effort should be made to save the precious relics from the fate of the melting pot."

CLASS 10.

Cooking and Heating Appliances and Utensils.

H. W. BODEMAN.—Adjustable Stove Grate.

The necessity of some device whereby fuel used in stoves and ranges can be raised at will so as to be nearer the cooking vessels, has called forth much inventive talent, and the one here exhibited seems to be the best and simplest of all. A peculiar combination of levers under the false grate, and operated by a screw and nut on the outside, are the main feature. The working parts being under the grate are not affected by the heat, and the whole is positive in action and easily applied to any stove or range. By their use a great saving of fuel is effected.

ADAMS & PRITCHARD.—Steel Ranges, Ships' Lamps and Lanterns.

This fine display occupied a prominent position on the main floor under the north gallery. It comprised a fine line of the celebrated M. & D. wrought steel ranges, ship and yacht ranges, condensing coffee-urns and marine lamps and lanterns, of their own manufacture. The steel ranges are far superior to the ordinary cast-iron ones, as they are not liable to crack. They are manufactured in all sizes, from that required by the largest hotel to one suitable for the smallest family. They are neat and compact and contain all the latest improvements.

J. DE LA MONTANYA.—General Display of Stoves, Ranges and Grates.

This exhibit was one of the leading and most extensive display in this class. It comprised a large line of Cooking Stoves and Ranges of the latest improved models and patterns; portable Grates, Heating and high-art Parlor Stoves. The prominent feature of this display was the "New Hub" Range, with Cabinet Base and High Warming Closets; the "Model Hub" burning wood and coal; the "Loyal Hub" with wire gauze oven door; the "Prize Hub" with extension hearth; the "Hub Junior" solid oven door; the "Gem Hub;"

a series of "Hub Heaters" and the high-art "Hub Royal" parlor stove. The "Modern Hub," representing a series of a very high order of decorative heating stoves. An entirely new feature in cooking stoves and ranges was illustrated in this exhibit in connection with the "New Hub" range, and was one of the principal features in the display. The "Wire Gauze Oven Door" or "Automatic Baster" is claimed to be the most convenient as well as marvelous improvement ever introduced into culinary art. It consists of a perforated door with a *wire gauze* lining, by the aid of which meats, fowls, etc., can be roasted perfectly, doing away with the old laborious method of basting. The roast is simply prepared and placed in the oven, the door closed and allowed to remain the required length of time, and, upon removal, is found to be of full flavor and evenly cooked. The "Improved Arlington" is worthy of special mention as a perfect working range. Taken as a whole, this exhibit was unique, extensive and instructive, and reflected great credit upon the exhibitors.

TAYLOR GOODRICH.—Magee Ranges, Fine Copper, Tin and Agate Cooking Utensils; also Bronze Mantels, Fire-places, etc.

The display of Mr. Goodrich was arranged in a room specially prepared for the purposes and a very attractive feature of the exhibition. The ware displayed was all of the highest finish and most approved patterns. (See also Class 40.)

C. D. HARVEY.—Hot Water and Steam Heating Apparatus.

This method of artificial heating is recognized as being far superior to stoves, grates or hot-air furnaces from every point of view, and is being very generally adopted in all of the better classes of modern buildings. With this apparatus a mild, uniform and spring-like temperature is maintained throughout the house with but slight attention. The exhibit represented the very latest improvements in steam and hot-water-heating radiators, including a number of the celebrated Bundy patent direct and indirect radiators, for which Mr. Harvey has the sole agency. Among the various styles shown are the circular, the corner, the "Climax," the Triumph, the dining-room hot closet, Harvey's hot-water boiler and the new Bundy "Elite," the latest design in the New York market. These radiators are all very ornamental in appearance and will add to the attractiveness of any room. The exhibit did great credit to Mr. Harvey's enterprise and was a prominent feature in that part of the Pavilion.

SHERMAN S. JEWETT & Co.—General display of Stoves, Ranges, Gas and Gasoline Stoves, House-furnishing Goods, etc.

This was a large exhibit, and comprised almost everything used in the household for cooking and heating purposes. A specialty, and which attracted much attention, was the "Quick Meal Gasoline Stoves," of which they claim 20,317 were sold in 1887.

JOHN F. MYERS & Co.—Display of Gasoline, Gas, Oil and Coal and Wood Stoves and Ranges.

This exhibit was mostly from the celebrated Adams & Westlake Manufacturing Co., and contained the latest improvements in generators and burners. The use of gasoline oil and gas for heating and cooking is being rapidly extended, as the new and approved appliances here shown prove its safety, economy and effectiveness.

NOVELTY HARDWARE COMPANY.—General display of Useful Inventions for the Household.

Among the articles shown was the "Perfect Kettle" for carrying off steam and disagreeable odor, Patent Hot-cake Griddle, Fire Kindler, Improved Roaster and Baker, and a Lamp Chimney Stove, whereby a common oil lamp is made to do considerable work.

JOHN B. OWENS.*—California-made Vapor Stoves.

The above-named stoves are California inventions and have many merits. The Curtis Vapor Stoves shown is a single burner and by a peculiar arrangement of the flue the whole of the stove top is converted into a hot plate, and the operations of baking and boiling, with but a single burner, can be carried on at the same time.

The inventor claims this to be the only single burner gasoline stove capable of performing both these operations at the same time. It is economical in the consumption of gasoline. A special advantage in its construction consists in the supplying-tank being below instead of above the burner, and whenever the tank is opened to be refilled the fire goes out automatically, thus minimizing the danger from carelessness and accident. [See Class 15.]

C. D. SALFIELD.*—Gem Saucepan.

This new invention commends itself at once to every housekeeper as an exceedingly useful adjunct for the kitchen. The saucepan is designated to cook various foods, solid and liquid. In form it resembles the ordinary saucepan, except that near the top there is a circular projection which forms a supplemental chamber. This chamber will catch the overflow when the contents of the saucepan boil, and being higher up and cooler than the rest of the pan, nothing escapes over the rim of the saucepan to the stove. The overflowing liquid passes by an opening close to the top of the pan directly into the vessel, and, as the chamber fills, the liquid again returns to the pan cooled off. The cover of the vessel is as ingenious as the rest of it. One side of the rim, which projects downward in the ordinary way, is cut so as to correspond with the opening just below the saucepan rim, communicating with the chamber; and in this way the amount of overflow can be regulated. Another portion of the rim is perforated like a strainer, and when this portion is brought opposite the opening in the saucepan all the liquid can be poured out of the saucepan, leaving the contents perfectly dry without the need of turning the saucepan upside down, and without running the risk of scalding the hands while holding the cover on in so doing. If it be desired to shut off the escape of steam the cover is turned so that an entire portion of the rim closes the opening in the pan. This is a California invention.

SCHUSTER BROS. & Co.—Display of Stoves, Ranges and Kitchen Utensils.

Among many articles exhibited, the old and well-known “Richmond Range,” “Garland Ranges and Stoves” and the “New and Improved Danglar Vapor Stoves” were especial features. The kitchenware included almost everything connected with cooking.

ALFRED SMITH.*—Galvanized Portable Oven.

The exhibitor says this oven is in general use in the Eastern States, and is specially adapted for use in hotels, restaurants, boarding-houses, bakeries and home bakeries. The material from which it is manufactured being a non-conductor, and being constructed with air-chambers, there is no radiation of heat, and a small quantity of fuel will keep it going for hours.

T. C. WALTER.—Fruit Drier.

The Walter evaporator has now been in use in various parts of this State for several years, and in no case has one ever been superceded by any other kind. The general merit of this drier is, that it will dry anything, without scalding or burning, and complete the process very rapidly. The inventor claims that with a machine of large size one man can attend it, where two would be required for other machines, as the fruit comes out of the same place as it is put in, and everything is convenient. The Walter Drier can be made in either permanent or portable form. The latter style can be erected anywhere, under a temporary shed, and removed at will. [See Class 8.]

WIESTER & Co.—Kitchen and Household Furnishing Goods.

This display consisted of an extensive variety of household utensils, such as clothes-wringers, ice cream freezers, agate-ware, gas, gasoline and oil stoves, egg-beaters, water-filters, etc. An attractive feature of their exhibit was the display of the Summer Queen, Fairy Queen and California Oil Stoves. The last-named is manufactured in our city and is becoming a very popular stove for heating parlors, offices, etc., and doing the cooking for small families.

CLASS 11.

Hardware, Firearms, etc.

LIDDLE & KAEDING.—Fire Arms, Sporting Goods, etc.

In this exhibit were fine shot-guns of the following make: W. & C. Scott & Sons, W. W. Greener, L. C. Smith, the Parker-gun, the Colt Hammerless, E. Remington Sons, and others, and breech-loading rifles of the best American makers. The fishing-tackle shown was the best quality, and included split-bamboo rods, silk and linen lines, reels of all kinds, hooks, flies, spoons, books for flies, etc.—in short, everything that a follower of the gentle art of Isaac Walton could desire. Reloading apparatus, fine dog-collars and baseball implements were also shown.

CLASS 12.

Fire and Burglar Proof Safes and Locks.

F. B. HARDEN.—Chase Burglar and Fire Alarm.

It is claimed that this invention has been thoroughly tested and does its work well at all times and under all circumstances. It is a durable and beautiful piece of workmanship.

J. G. O'NEIL.—Combination Lock.—An ingenious piece of mechanism.

CLASS 13.

Cutlery and Edged Tools.

CALIFORNIA SHEEP CASINGS COMPANY.—Display of Butchers' Supplies, Machinery, Implements, etc.

The California Sheep Casings Co., manufacturers and importers of Butchers' Supplies, exhibited a splendid display of butchers' meat blocks, counters, steam meat-choppers, scales, knives, cleavers, saws, in short a full assortment of butchers' tools and machinery. We especially are pleased to state that their new patented N. Bosman Cooling Room Apparatus, exhibited at the same time, received general attention from all the visitors, and everybody seemed to be unanimously impressed with the high merits of this new invention. The apparatus is especially adapted for butchers' and packers' use.

WILL & FINCK.—Display of Cutlery, Sporting Goods, etc.

The display of this well-known and enterprising firm, as usual, was comprehensive, interesting and tastefully arranged in two different spaces, one on the main floor, the other in the gallery. The one down stairs contained a fine exhibit of cutlery—their own manufacture—of which the carving sets have a world-wide reputation; also pocket cutlery in endless variety, toilet articles, fishing-tackle, dog-collars, etc. Up stairs, a room was enclosed containing every variety of gymnastic apparatus of the most improved form and finish. This display was one of the most complete of its kind ever shown on this Coast.

CLASS 14.

Grates, Marble Work, Artificial Stone Work, Earthenware, Glassware, etc.

CEMENT BRICK COMPANY.—Patent Bricks.

This Company displayed bricks made under Ransome's patent. The process is distinct from any hitherto used in the manufacture of brick. The product is a smooth, sharply-cut brick and can be made in any shape or color. They are eminently suited for ornamental purposes and are coming largely into use in this city. Among the buildings where they have been used are the Children's Play House in the Park; new Unitarian Church, corner Franklin and Geary streets; building corner Second and Stevenson streets, and the residence of A. D. Moore, Esq., corner Pacific Avenue and Devisadero streets.

INYO MARBLE COMPANY.—Display of California Marble.

The fine display that the Inyo Marble Company made last year was repeated, with many notable and important additions—a natural and gratifying result, as the quarries are further developed. The showing comprehended not only the pure white and deep blue-black, but almost every shade or tint of yellow, blue and drab, and a great variety of what might be termed dendritic or moss-agate marble. The same disposition and blending of colors is very rare. The great value and importance to this State of such a deposit is hard to estimate. William W. Warren, of many year's experience in the marble works of Vermont, who recently visited these Inyo quarries, unhesitatingly says that for quality, quantity, color and texture, these deposits are the best he ever saw. He adds that in uniformity of color and texture the marble is far ahead of Vermont, and that the beds, being above the level of the valley, can be more cheaply worked than in many of the Vermont quarries, where the heavy blocks have to be hoisted from a depth of 200 to 300 feet below the surface. He predicts that Inyo marble will become as well known and as extensively used as either the Vermont or the Italian. Israel Luce, Superintendent of the Inyo Marble Company, is probably the best posted man on marble formations in California. He has given years of study and travel to find, if possible, something that would compete with the Old World; and in these Inyo quarries he is sure that he has found it. He has seen nothing in California or on the Coast to compare with it.

Capt. J. M. Keeler, the President of the Company, who was in charge of the exhibit, states that they are putting in new machinery and employ a large number of skilled quarrymen. The foreman, M. Parlo Ricci, is from Carrara, Italy, where he was interested in a quarry of fine marble. He says he is satisfied this Inyo quarry will prove to be the largest and finest quarry in the world. Owing to its hardness, close texture and perfect

crystalization, this marble receives the finest polish, and is not affected by the atmospheric changes or by acids or oils, as other marbles are. It is perfectly free from silicate, which gives it a uniform texture and enables it to be worked evenly. It is not hard and soft in spots, like most other marbles; and another very important consideration is, that it contains merely a trace of iron—only 17-1000ths of 1 per cent.—and does not show rusty stains when exposed to the weather, as inferior marbles often do.

It appears to be generally conceded by all marble-men who have visited this important marble formation that blocks of any required size can be quarried, the deposit being quite three miles along the base of the old Inyo Range, and showing from 800 to 1200 feet in width, and in many places 500 feet above and facing the level plain.

The following reliable test made at the University of California gives a good idea of the remarkable cohesive strength and solid character of this marble, as compared with others:

Vermont, an inch cube crushed at 6,000 pounds pressure. Italian, an inch cube crushed at 10,000 pounds pressure. Inyo, an inch cube crushed at 26,900 pounds pressure.

S. G. WILLIAMS & SONS.*—Eureka Mantel Grates.

This is a strictly home invention and manufacture, and meets with a large sale and hearty approval wherever introduced. The shaking and dumping attachment saves much of the annoyance from lack of draught, and the dust and ashes inseparable from the old kind. [See Class 15.]

CHARLES MAZE.—Bricks made from clay obtained in Stanislaus County

CHARLES MESTON.—Enameled Letters.

The principal quality of these letters is indestructibility.

NATHAN, DOHRMAN & Co.—Cut Bar Glassware.

A very neat and tasteful display of fine quality glassware.

CLASS 15.

Sheet Metal, Copper, Brass Work, Plumbers' Goods, etc.

N. BEAUREGARD.—Water Filter.

No explanation of this invention could be obtained.

CALIFORNIA WATER-FILTER COMPANY.—Water-Filter.

It has been demonstrated that pure water is a requisite to good health, and from the claims of the Arnold Patent Indestructible Water-Filter, manufactured by the California Water-Filter Company, Oakland, Cal., they have the nearest perfect invention yet placed on the market. It was in almost constant use during the Exposition.

A. S. GRAFF & Co.—Hanging and Standing Lamps, and Diamond Coal Oil Burners.

The Diamond Burners are claimed to be the best coal oil burners yet invented. This lamp can be attached to any gas or coal oil fixture, and the burners to fancy table lamps of almost any description, and is especially adapted for lighting offices and large rooms. It is made in various designs suitable for table, hall, wall or hanging lamps, and is an especially suitable burner for billiard tables, and for night compositors and workmen requiring a clear light.

GEORGE HARDCASTLE.—Wick Regulator.

This invention is designed to keep the flame of coal oil lamps steady, and by so doing much of the smoke and smell that is so annoying is disposed of.

S. G. WILLIAMS & SONS.*—Champion Overflow Slop Hopper.

This Home Invention and Manufacture meets with much favor from architects and builders, and consequently an extensive sale, which is well merited. Only by energy and attention to business can an article with so many competitors succeed. [See Class 14.]

PACIFIC COPPER WORKS.—Display of Distilling Apparatus, Soda Water Apparatus, etc.

The distilling apparatus exhibited was the largest and finest display of copper-work ever shown in San Francisco, occupying a space thirty feet in length by twenty-five feet in height. It is a new invention of Mr. Luding Wagner, who says it is an entire change from the old style, and works continuously, enabling one to distill in a few hours nearly as much as could be done in ten hours, and saving from 10 to 40 per cent. more alcohol or brandy than by the old process. From what is usually a waste product of heat, 99 per cent. is saved, and from 20 to 50 per cent. of fuel and time in the entire process, which is simple and requires little care. The apparatus not only distills raw material but re-distills, thus doing away with two sets of apparatus. The apparatus is patented, and guaranteed to perform the work as stated. The Company also had a large and very fine display of Soda Apparatus, which in quality and workmanship is superior to any imported.

W. W. SHERMAN.*—Self-Closing Gas-Burner.

This invention is claimed to be a perfect preventative of accidents which often occur from the careless shutting off of gas on defective burners. It operates by the unequal expansion of a spring composed of two pieces of different metals soldered together, which are exposed to the heat of the flame.

MEYER, MARSHALL & Co.—Siemens-Lungren Company's Regenerative Gas Lamps.

A large number of these lamps were placed in the Western Gallery of the Pavilion, to displace the reflectors usually used for lighting.

A report of the same will be found in the Report of the Committee on Power and Machinery, near the close of this book.

JOHN B. OWENS.*—Stanford Light Lamps.

This is a California invention and has many merits. [See Class 10.]

FRED. JANTZEN.—Hanging and standing lamps for all purposes and in great variety. Well arranged and an attractive display.

WM. WAINWRIGHT.—Spray Pumps, Nozzles. Irrigators and Sprinklers.

Mr. Wainwright had hose attachments to the various articles of his exhibit to show and explain their practical working. All his own inventions.

T. C. WALTER.—[See Class 10.]

WELSBACH INCANDESCENT GASLIGHT COMPANY.*—System of Incandescent Gas Lighting.

The displays of two leading exhibitors were lighted by this Company, one of them, that of the Messrs. W. & J. Sloane & Company, being, from the character of the goods shown, very difficult to adequately illuminate at night. It was, however, done to the satisfaction of the public and all concerned by the use of the Welsbach Light. This system of lighting is the invention of Dr. Carl Auer von Welsbach of Vienna, Austria, and constitutes an important discovery in solving the problem of artificial lighting. A strong and brilliant, yet soft and steady white light is produced, which is free from the waste products of combustion. The freedom from smoke and soot is due to the perfect and complete combustion of the gas used, which is done by the peculiar burner which mixes atmospheric air with the gas below the point where the combustion takes place. This effects a more complete combustion than is attained by ordinary methods of using gas as an illuminant. The illuminating effect in this system is obtained by using what Dr. Welsbach calls a "mantel." This is a cotton fabric, woven in the shape of a cylinder, which, after being coated and impregnated with a solution of incombustible elements, is subjected to an intense heat, that burns the cotton away, leaving a residuary skeleton of incombustible oxides having the appearance of a net-work of lace. This is placed over the peculiar burner used, which effects complete combustion of the gas; that, being ignited, the "mantle" becomes powerfully incandescent, and emits a white, brilliant and perfectly steady light, one which is not affected by draughts. Any kind of illuminating or heating gas can be used, natural or artificial, and, owing to the complete combustion, gas of poor quality is equally available with the best.

The Welsbach burner can be readily fitted to any bracket, by unscrewing the old burner and screwing the Welsbach on.

CLASS 16.

Carpenters', Joiners', Shipbuilders' and Stairbuilders' Work, Ornamental Painting and Graining, Plaster Work, etc.

PETER ABRAHAMSON.—Ventilator.

The principle of this Ventilator is easily explained. It may be applied in a brick wall, or between plastering and outside walls or hall partitions; also to a car window or house window-sash, or between the window-sash and cap, or to a door or transom. It is the same in all. Communication is thus afforded with the outer air, so that fresh air comes in, and the foul air goes out. The hot air passes out of the room, causes a vacuum, and the fresh air enters, keeping up a constant circulation. In the window, the fresh air enters through a perforated cast-iron plate or screen, which keeps out flies and insects. These ventilators obtained a First Prize Medal at the Mechanics' Institute Exhibition of 1887, and are in use in many public buildings and private residences.

GEO. F. ATKINSON.—Turned Articles of California Woods.

Mr. Atkinson had a lathe in operation at the Pavilion, where each day and evening he produced, in great variety, fancy articles, which were eagerly secured by visitors, particularly those from abroad.

H. M. BILLINGS.—Redwood and Bark Novelties.

The most noticeable part of his display was canes made from the bark of redwood, grown in Humboldt County. By a peculiar process the bark is hardened, and then turned perfectly straight, smooth, and finely polished, showing all the beauty of the bark material, yet strong and durable.

W. L. BOVYER.—Ship's Propeller.

A large-sized model of what is claimed to be a great improvement in the shape of a propeller, the blade being somewhat in the shape of an elongated spiral held to a connecting-rod by broad bands of steel. The inventor asserts that his contrivance is stronger and more powerful than the fan screw in general use. It does not churn the water, and does away with the usual hissing and bubbling at the stern of a steamship. There is no apparent waste of force, and its application to small steamers has demonstrated a great increase in speed and power.

T. CHOPE & SONS.—Window Shade and Screen Fixture.

This useful combination of Screen and Window-Shade can be operated separately or jointly, and, if desired, the screen and roller can be removed from the window at a moment's notice. The device does not interfere with the inside blinds, the run of either sash, or any of the trimmings of a window.

CUTTING & McDONALD.—Shingles.

These were of particularly fine quality and shown in the Humboldt County Display.

DOLBEER & CARSON.—Polished Redwood.

This display attracted much attention, as the specimens were principally of buhrl and curly portions of great size and beauty. This was also in the Humboldt County Display.

CHESTER DOYLE.—Model of Yacht "Burlington."

G. C. FOWLER.—Miniature Steamship, Model of the "Golden Gate."

This was a beautiful and skillful specimen of handiwork, and a perfect copy of a large vessel. It represents a full-rigged and completely-equipped four-masted steamship, built after the style of the large Atlantic steamers. The hull is made of brass. The scale is one-eighth inch to the foot, and the model thus represents a ship 500 feet long, with breadth and depth in proportion. The proportions, even to the minutest details, are exact, and a ship built after this model would be perfect in all points.

The model is furnished with a three-cylinder engine, every part of which is perfectly made. Even more of a marvel is the almost microscopic details of the little mite of an engine placed in the launch alongside the steamer. The launch itself is only $3\frac{1}{2}$ inches long, and the engine would find spacious quarters inside an ordinary thimble.

GEORGE C. GOMPERTZ.—Model of the Yacht "Thistle."

HARRIS & JONES.—California Dressed Lumber.

This firm had on exhibition some very fine specimens of sugar-pine, yellow-pine, white cedar, red cedar, spruce, Oregon maple, and ash, redwood, curly redwood, bolt and redwood buhrles.

GEORGE HAYES.—Inlaid Picture Frames.—Done by long and patient labor.

E. B. HINDES & Co.—Hill's Patent Inside Sliding Blinds.

These improved blinds were well displayed in full-sized windows and attracted much attention. Many points of superiority over the ordinary folding blind is claimed for this comparatively new invention, among which are cheapness, saving of room and the wear and tear of curtains, and consequent vexation. They met with much favor and have a large sale in this city and throughout the State.

HURLBUT BROS.—Finished Redwood.

This was shown by a room about 20 feet square, being built of and fitted up entirely of this well-known Californian wood, and shows what taste and skill can do in bringing out the colors and intricate grain of redwood buhrles. It is safe to say that no finer display of Californian native woods, in a polished form, has ever been made.

Hurlbut Bros. showed enterprise as well as good taste in preparing their exhibit. That their efforts were appreciated was shown by the crowds of visitors constantly to be seen about their booth and by frequent expressions of admiration.

The front of the booth was composed of a richly-carved cornice and belt-work, supported by pillars. The booth itself, as well as every article of furniture in it, were made entirely of carved and polished redwood. The variety of colors and effects produced were astonishing. In the elaborate wainscotting which surrounded the room were 26 panels of rare and beautiful grain—no two alike. Facing the visitor as he entered was a magnificent carved mantel-piece, reaching to the ceiling, which is said to be the finest piece of cabinet work ever made of redwood, and is handsome enough for a palace. Its value is placed at \$700.

Two doors made of redwood veneers attracted much attention by their richness of color and grain. Good judges say they are handsomer than the finest mahogany. Other attractive articles were a center table, card receivers, etc.

Hurlbut Bros. have made a long study of the best means of working up curly redwood into artistic forms for furniture and interior decorations. One of the firm is constantly engaged in selecting curly stumps and buhrles. The finer qualities, such as he uses, are very rare; and often only one or two good stumps can be found in a hundred acres. After the best specimens are found and sawed into veneers they are carefully finished and polished in a way that does not obscure, but brings out, all the rich colors and fine lines of the intricate grain. The firm controls the use of the secret compound for hardening and polishing the wood, which gives it a durable and glossy finish while adding to its natural beauty. The fine work exhibited shows the perfection of their method. They also deal exclusively in redwood veneers of the finest quality, in the rough and polished. They are valued at from four to twelve cents per foot, according to the beauty of the grain. They have an extensive trade in this line with New York, London, Paris and other Eastern and European cities, where curly redwood, on account of its surpassing beauty, has become the rage, and is in active demand for costly furniture and interiors.

P. H. JACKSON & Co.—Acme Ventilator.

It is claimed that this ventilator has no equal for the exhaustion of sewer gas, foul air, increasing chimney draft, or for any purpose requiring a strong atmospheric current. It affords the best means for the ventilation of theatres and other places of public assemblage. They are made of various sizes and can be adapted to all kinds of work.

KEEFE & FRASER.*—Stained Polished Redwood.

The wealth of Californian forests is just beginning to become known. The State owes a debt of gratitude to Messrs. Fraser & Keefe for showing what can be done with our Californian redwood in the interior finish. The exhibits of redwoods in different styles of finish made by this firm is certainly remarkable, and is worthy of the highest praise. Hung against the walls of the booth were panels of redwood stained and finished in twenty-five different colors. Side by side hung a piece of natural rosewood and a piece of redwood with rosewood finish; the latter is much the handsomest and richest in appear-

ance. Panels of redwood were shown stained and finished to represent rosewood, mahogany, cherry, Spanish cedar, amaranth, etc., besides several beautifully-shaded, mottled tints of brown, deep red and amber. The work of these gentlemen show that, under their skillful manipulation, our Californian redwood surpasses any wood in the world in beauty of grain, richness of color and variety of effects. By a long series of experiments, Keefe & Fraser have discovered certain stains and methods of finishing of which they are the exclusive proprietors. Their treatment does not obscure but brings out the beautiful natural grain of the wood, and adds a polish equal to that found on the costliest pianos. Besides the redwoods above noted, beautiful samples of polished primavera, maple, laurel, toa, Spanish cedar, white holly, Hungarian ash, walnut, root of ash and other woods were exhibited. Another invention of this firm consists of a hard, white, ivory enamel, that can be applied to redwood, pine or any other wood, and which produces a glittering, smooth surface so hard that it cannot be chipped or indented by any ordinary blow. It can be readily gilded, and is intended for a "gold and ivory" finish.

The most important feature is the *durability* of their work, which is insured by the superior quality of the finish they use, called "*Elastica*." This material was selected by these gentlemen because of its being more elastic, and its resistance to scratching and the action of the strongest soaps and alkalis; also, because it does not wear white. It is difficult to conceive how woods could be made to present a finer appearance than when finished with "*Elastica*."

H. B. KENNERSON.—Metallic Life Boat.

No detailed description could be obtained of this exhibit.

LITTLE & KNOWLES LUMBER COMPANY.—Samples of Redwood.

This firm carries a very large stock, and are Agents of the Del Norte Commercial Company. Their exhibit comprised both the plain and finished wood.

McKAY & Co.—Redwood Plank 137 inches wide by three inches thick.

This remarkable piece of lumber was straight-grained and without a check or blemish of any kind. The fine quality and great size of the merchantable lumber of this State was well illustrated in this exhibit.

PACIFIC PINE LUMBER COMPANY.—Stick of Timber.

This piece of timber is the longest ever sawn in the world. It is 151 feet long, and 20x20 inches square.

It was sawn by Renton, Holmes & Co., at the Point Blakely Mill on Puget Sound, Washington Territory, especially for exhibition at the Mechanics' Fair of 1887. The largest stick heretofore manufactured was 144 feet long, which was also sawn on Puget sound. It is only on the Pacific Coast of America that such immense specimens of clear timber can be produced. The enterprise of Messrs. Renton, Holmes & Co. in sending this exhibit for the information and instruction of Eastern and foreign visitors is very commendable. Though exhibited last year, it had lost none of its attraction, and is a veritable wonder.

PACIFIC WIRE SCREEN FACTORY.—Model of a Screen Window.

POINT BLAKELY MILLS.—[See Pacific Pine Lumber Company.]

PURITAN MINIATURE YACHT CLUB.*—Display of Miniature Racing Yachts.

This display comprised the following-named yachts:

SLOOPS.

Name.	Owner.	Length on water-line.	Length over all.
Nettle	A. Johnson.....	36 inches.....	40
Maria	W. Redford.....	35½ "	39½
Strainrock.....	R. Cousins.....	27 "	44
Norman.....	W. Rasmussen.....	31¼ "	36½
Spray	H. Venn.....	37 "	31
Volunteer	Geo. Crowe.....	37 "	40
Dream.....	T. Field.....	33 "	38

SCHOONERS.

Sachem.....	Jere H. Smith.....	36 "	39¾
Nina	Thos. F. Boyle.....	34 "	37
Enchantress.....	Chas. C. Venn.....	35 "	38
Coquette.....	R. Cousins.....	36½ "	40
Truant.....	Chas. C. Venn.....	30 "	34
Pilgrim.....	Chas. C. Venn.....	37½ "	42
Puritan (sloop).....	R. J. Cousins.....	38 "	44

First-class boats are from 40 to 50 inches over all, second-class boats are from 30 to 40 inches over all, and third-class boats are from 20 to 30 inches over all. The classification is only in regard to length and not the superiority of the model; and the boat's rigging is not taken into account, as the sails are to be kept in position always. Hence there is no necessity for block and tackle in these models, as they are made for sailing, and a model of the boats themselves is what the Club desires, although the amount of sail area in each case is calculated correctly.

This exhibit was most interesting; it attracted the special attention of all who "go down to the sea in ships" or spin over the "briny" in our beautiful bay. Model-making is an important and indispensable adjunct to the art of ship-building, and many interesting theories can be explained and exemplified by the skill of the model-maker. The models were fitted with sails, the proper sail area being in each case correctly calculated. This exhibit was not the toy product of idleness or the want of something better to do, but was the result of the patient work of inquiring minds directed to a most important subject. America at one time led the world in the matter of marine architecture and construction, and the taste for aquatic sports and the building of pleasure-boats is one eminently deserving to be encouraged.

REYNOLDS & ADAMS.—Hardwood Flooring and Wainscoting.

This was an important display of a new industry on this Coast, in which the firm has made a most creditable showing. The beauty, durability and clean lines of this material makes it very desirable, and in the end is probably cheaper than ordinary flooring which has to be covered. Many of the patterns were of beautiful design and showed much artistic skill in arrangement of the various colored woods of which this State produces so great a variety.

J. F. SEYDEN.—Model of the Ship “Gatherer.”

This ship is noted for the deeds of cruelty once practiced on her by her first officer, who made this model while sojourning in the State Prison at San Quentin, as a penalty for his crimes.

A. STRAND.—Newel Post.

One of these was very large, of handsome design and made of tawana and other native woods, artistically inlaid and finely polished. It was one of the finest pieces of workmanship in the Fair. There were two other smaller specimens, made of walnut, French polished.

R. E. STUIRFURTH.—Model of Ship “Thiorva.”

This was a very large-sized model, with every rope, tackle, sail and equipment of a ship in its proper place, and well shown. It was placed in the basin of the fountain where it proudly floated—a great delight to the youngsters and a source of pride to the exhibitor.

A. B. SWAN.*—Auth’s Patent Window-Glass Setting.

The merit of this invention consists of having a cushion of rubber between the glass and wood, thus preventing much of the breakage which now often occurs.

The exhibitor says this invention provides a cheap and simple means for allowing the glass or lights in windows to expand and contract, and thereby avoid the danger of breakage from that cause, the same also serving as a cushion and a means of security in setting and in the handling of glass while placing the same in the sash. By this invention glass can be easily removed from the sash by simply removing the strips, the strips being held in position by means of screws. It also prevents the glass from rattling and breaking by concussion in glass doors, carriages, cars, etc.

B. VAISSADE.—One Bunch of Common and four Bunches of Fancy Shingles. These were from Humboldt County, and in that Display.

JOHN VANCE.—Immense plank of Redwood, section of Pine and Spruce, and Shingles.

These were from Humboldt County, and in that Display.

CLASS 17.

Musical Instruments.

THOS. W. BREE.*—Display of Banjos.

The instruments exhibited were of the finest description, all having silver rims and the necks being handsomely inlaid with mother-of-pearl. Since this instrument became such a favorite many improvements have been made, all of which are to be found in those exhibited by Mr. Bree, who is himself a

master of the instrument and a popular instructor in its use. His booth was made peculiarly attractive by the performance of three young banjo-players, Miss Bessie Richards, Miss Daisy Cressy and Pascal Balambo, three pupils of Mr. Bree, all under 12 years of age, who twice a week gave pleasing performances on the banjo, a handsome testimonial to their teacher's and their own talent.

KOHLER & CHASE.—Musical Instruments and Merchandise.

The exhibit of this old and well-known firm comprised almost every instrument known in modern music, among which were the celebrated Besson, Higham, Courtois, Piston Français, and K. & C. Band Instruments; Buffet, Crampton & Co. Clarionets and Saxophones, Washburn Guitars, Zithers and Mandolins, Stewart & Dobson Banjos, Violins, Flutes, Drums, etc. The display of upright pianos was particularly attractive, being from the noted manufactories of J. & C. Fischer, Ivers & Pond, and Decker Bros. They were of different woods, highly finished and excellent in tone and touch. Also the celebrated Æolian organs. As a whole, the display was most creditable and interesting, and duly appreciated by visitors.

LOUIS MILLER.—Display of Accordeons.

The greatest perfection yet attained in the manufacture of accordeons has been accomplished by Louis Miller, who is exclusively engaged in making these instruments, and who had a splendid display. He has invented a perfect instrument which plays in any key, major or minor, giving—what has never before been secured—perfect tones, full, rich and sweet. His “show piece” is a work of art. It is only twelve inches high by seven wide, and is a marvel of power for so small an instrument. It is a beautiful piece of work, the value being \$150.

F. W. SPENCER & Co.*—Pianos and Organs.

The pianos exhibited were the celebrated “Conover,” of which they are the agents. The Conover pianos possess all the finer qualities of the best instruments, besides the certain patented improvements invented and owned exclusively by the Conover Bros. The upright piano has a wide reputation for its solidity of construction, elasticity and precision of touch, and for its purity and power of tone. This piano has stood the test of a critical and professional public, who have recognized its merits.

ISAAC H. THOMAS.—Historical Drum.

This old relic was shown in the exhibit of Kohler and Chase. It is a survivor of the war of 1812, and was used in the battle of New Orleans and Tippecanoe. The drum belonged to a company organized in 1812, at Elizabethtown, Ky., of which Isaac Thomas was Captain. It became the property of Captain Thomas, and upon his death, in 1854, he bequeathed it to his youngest son, Isaac H. Thomas, who now holds it, and through whose courtesy it was placed upon exhibition in the Pavilion.

CRESS UNGER.—Banjos of his own make.

These instruments are entirely of California manufacture. The rims are made of hard maple, with German silver spun over them and wired on both

edges, making them very substantial and beautiful. The necks or handles are made from the very best and thoroughly-seasoned woods, principally birds-eye maple, holly, coco-bola, and rosewood. The faces of the necks are inlaid in several different designs with rare and beautiful fancy woods procured from different parts of the world, the edges being finished in ivory. In regard to tone, the best experts of the city pronounce them equal if not superior to any other make.

GEO. F. WELLS.—Display of the well-known Mathushek Pianos, also Cabinet and Parlor Organs.

A special feature of these pianos is the Equalizing Scale and Linear Bridge, claimed to be of the utmost importance in increasing the power and quality of tone and the strength and durability of the piano. The exhibit was nicely arranged and tastefully fitted up.

CLASS 18.

Vehicles and Accessories.

BAKER & HAMILTON.—Wagons.

The style and finish of the Spring Wagons made at the Benicia Works of this firm, of thoroughly seasoned wood, attracted universal admiration. These wagons are specially adapted to stand the dry, hot climate of the interior of the State, and are fast superseding the Eastern-made wagons of a similar grade. In the way of a heavy farm vehicle the firm had a Bain wagon, finished in the natural color of the wood, which was as fine a specimen of a heavy farm wagon as has ever been on exhibition in this city. It was fitted with the wrought iron tubular self-oiling axle, which is a feature of this make. [See Class 6.]

N. BEAUREGARD.—Carriage Lifting-Jack, of California invention and manufacture. [See Classes 5 and 15.]

C. W. BURGTORF.—Road and Village Cart.

These carts are simple and durable, with patent anti-horse-motion shaft attachment, of malleable iron, which does away with the very unpleasant horse-motion so objectionable to the rider. With a good lively trotter the cart rides easiest, is as well adapted for shafts as pole, and is readily changed from either pole or shaft. They are also furnished with a patent adjustable seat, in which the seat is divided, and both sides can be opened and easily adjusted to any balance desired, independent of each other, and by which the weight can be easily regulated upon the patent anti-horse-motion shaft attachment, thereby relieving the horse of its heavy strain and making the cart as easy riding as a buggy. No climbing in front of the wheels in getting in or out.

COLUMBUS BUGGY COMPANY.—Extension Top Carriages, Phaetons and Beach Wagon.

This large and fine display of imported carriages was from their extensive works at Columbus, Ohio, who make a specialty of using none but the best materials, of which that State is the center. The display was attractive, style, comfort and fine finish being equally shown.

DEVANY, HOPKINS & Co.*—Display of Bicycles, Tricycles and Tandems.

The display made by this firm was of the well-known manufacture of the Coventry Machine Co. (limited) of Coventry, England, which has for twenty years been successfully engaged in the manufacture of Bicycles and their congeners, the Tricycles, Tandems, etc. A very complete line of these machines was shown, of superior make, finish and enduring qualities—all possessing the latest improvements for securing speed and safety in their use. The best materials are used in the construction of these machines, and the nickel-plating and enameling has evidently been done with great care and skill.

MERSEREAU & SON.—Phaeton and Park Carts.

The special advantage of these carts lies in what is termed a three-quarter spring, which is claimed to be a very important invention for vehicles of this kind, as it removes what is known as horse-motion from the cart; neither the spring nor the body has any connection with the shafts, but work independent of them. Another advantage of this arrangement is, that when the spring is weighted down it carries the body horizontally backward, so that the spring always compensates the weight, thus throwing an equal weight upon the horse; whether the passengers be heavy or light the horse never has more than five pounds to carry, thus preventing the horse's back from becoming chafed or sore. The arrangement also prevents the springing or pitching forward of the body in case the wheels strike or drop into a hole or rut, as the springs carry backward as they close by any sudden action, thus saving the horse and rider from the shock which is felt when the ordinary cart or vehicle drops suddenly into a hollow or meets with any obstruction in the roadway.

OSBORN & ALEXANDER.—Bicycles, Trycicles and Safeties.

These large importers and agents of the "silent wheel" had a large and fine exhibit of these popular and cheap means of locomotion. A popular and well-known manufacturer of wagons in this city gave a private yet remarkable exhibition of the possibilities of the tricycle, showing what an amateur in riding may do in a few minutes' practice.

PACIFIC TOP COMPANY.*—Buggy Tops and Trimming Materials.

These Buggy Tops were all of home manufacture. They are put up in a workmanlike manner by experienced men who thoroughly understand the business and are proficient in all its branches. After a careful examination not a wrinkle could be found, so exact and careful was the covering adjusted. Their "No. 6½ A" was a full hand-buffed leather top, lined inside with 18-oz. broadcloth, brewster knob patches, which allow the curtains to be removed with perfect ease. They consider it the best top made on this Coast for the price.

The "No. 5 A" buggy-top has leather quarters, lined with 16-oz. broadcloth, hand-buffed leather quarters, 28-oz. rubber in roof and black curtains, brewster knob patches and steel bow sockets.

They also displayed carriage trimmings, hand-buffed and machine-buffed top and trimming leather; hand-buffed and soft dash leather, broadcloth, etc.

STUDEBAKER BROS.' MANUFACTURING COMPANY.*—Landau, Phaeton, Buggy, Carts, etc., Farm Wagons and Truck.

The Landau was a five-glass falling top, coupled much shorter than most carriages of this kind, and yet retaining ample room. It was finished, as regards upholstering, painting and trimmings, in the latest styles, after French designs and patterns.

The Mail Phaeton, or a carriage made from English designs and patterns, was the very finest of its kind as to quality and finish. This carriage is more particularly adapted for gentlemen, especially those desiring to drive four-in-hand tandem.

The Victoria was a beautifully-designed carriage, especially adapted for ladies, more particularly in our California climate when closed carriages are not so much of a necessity as in the Eastern States and Europe.

The Derby Movable Seat Buggy is practically a fine style village-cart, body hung on four wheels instead of two.

The Miniature Surry is a neat and novel-designed vehicle, especially adapted for a team of ponies. The upholstering and finish was in excellent taste and in keeping with the vehicle and the purpose it was intended for.

The "Elsemere" English Dog-Cart was a vehicle with a capacity of four passengers, built after the English style, but made much lighter—more after the American idea. It will carry two or four passengers, the seat being adjustable to properly distribute weight.

There were also a Miniature Village Cart and a Frazier Village Cart, both of new and novel design, the latter being especially recommended for its excellent riding qualities. In addition to the above this firm exhibited, in the Annex, Farm and Fruit Wagons and a Teamsters' Truck, made and finished in the most workmanlike manner. They were all made at their extensive works in South Bend, Ind.

TRUMAN HOOKER & Co.*—Carriages, Buggies, Carts, etc.

Six-Passenger Cabriolet.—This was an elegant design for a family carriage with leather extension top, made to drop clear back and have the appearance of an Open Job. Good material and workmanship, and finest quality throughout.

O. G. Loop Front Phaeton.—Has deep rolling dash. The lamps are in front of dash fastened to loop-irons. Trimmings and cushion of drab cloth; mountings, gold finish, latest style.

Miniature Cart.—This cart is particularly adapted for children; seat being adjustable for children from five to twelve years old.

Improved Dandy Cart.—The merits of this cart are claimed to be, that the seat being hung on axles independent of shafts, is absolutely free from horse-motion. An adjusting brace under the seat allows it to be changed to any size

horse, keeping it always level. The important fact of seat tipping up which saves the rider from climbing over seat-bars and wiping mud off wheels, is here introduced. Ladies can enter this cart much easier than they can a buggy. There is no weight on the shafts, as it all comes on the axle near the collar, and consequently there is no spring of axle. It has a long spring fastened to the axle, which makes it ride very easy.

End Spring Three-quarter Buggy.—The particular merits of this buggy are its skillful ironing, trimming and painting.

End Spring Murphy Phaeton.—Finished in natural wood, no paint, showing hickory and iron work throughout; trimmed in leather; wing dash.

Truss Axle Sulky.—In this sulky the axles are trussed with high arch, so as to allow the rider to be close to his horse and allow the horse all the spread necessary. The construction is simple and the proportion of one part conforms so nicely with the other that a perfect, true-running and reliable sulky is attained.

WESTERN TOP COMPANY.*—Buggy Tops and Cloth.

This is a comparatively new industry, and though it is under the protecting care and management of the Studebaker Bros. Manufacturing Company, it is a separate and distinct business. It was originated with the purpose of making carriage tops of *all* kinds for the general trade at reasonable prices. Its success is assured, and the management expects to largely increase the output of the factory, which means a larger factory and an increased number of employees. All the tops exhibited by this Company, are of home manufacture, or, in other words, made in San Francisco, by workmen residing here.

THOMAS BOOTH.—Redwood Table.

This fine specimen of cabinet work was a part of the Santa Clara County Display.

BURR FOLDING BED COMPANY.—Folding Beds.

This was a large display of the well-known Burr Folding Bed, in a variety of styles, and all of the best materials and workmanship. They also had the Ross Table Wash-Stand, a companion-piece of furniture to the beds. The two together form a complete set for a bed-room.

G. W. CLARK & Co.—Wall Hangings and Interior Decorations.

The metamorphosis of a rough-boarded room in the Pavilion into an apartment of the most elegant and artistic appearance was accomplished by this firm in a short time by the aid of skilled workmen and material of which they have an immense stock and variety, of the latest styles and most recent manufacture. The display was worthy of their reputation as decorators, and pleasing to visitors whose admiration and praise were freely expressed.

THE J. DEWING COMPANY.—School Apparatus, Desks, Supplies, etc.

In their display, prominence was given to a comparatively new branch of their business—school furnishing. Almost everything belonging to the perfect equipment of the best ordered school-room was here in position, ready for the use of pupils and teachers. Among the most notable things in their present exhibit may be mentioned the “Automatic” or self-folding school

desk and seat, their combined blackboard and map case, stone slate for blackboards, improved map and chart holders, crayons and erasers and "dustless erasers"—really dustless crayons—improved wall maps, with latest spring-roller cases, physiological charts and manikin, natural history charts, astronomical drawings and charts, latest improved tellurians, orreries and other apparatus.

B. F. FARRAR.—Sofa Beds, Wire and Spring Mattresses, Cots, etc.

Mr. Farrar has introduced into his manufactory many new and improved devices of utility and convenience, which were well shown in his comprehensive exhibit. His long experience and practical knowledge of the business is a guarantee that the best of material and workmanship are embodied in his goods.

JOSIE FRIEND.—Spring Mattress.

This mattress was furnished with the "Double Spiral Spring," which is claimed to be the best yet invented, as its peculiar construction produces contraction and expansion, both at the same time; or, in other words, the outside coil cannot expand without contracting the inner coil, and *vice versa*; therefore it is impossible for it to lose its elasticity and settle down, as the single coil does. They have no frame or stiff, unyielding material, and are not connected together (which process takes away the elasticity), but each spring acts independently; hence they will adjust themselves to the body, and are *absolutely noiseless*.

GEO. H. FULLER.—Office and School Furniture.

The desks exhibited were of various styles, possessing all the late and many new improvements. The modern office desk, as shown, were marvels of convenience and workmanship, every inch of space being utilized, the exterior finely finished, and the interior arranged to hold almost every possible requirement of an office.

W. G. JOBSON. The Marks Adjustable Folding Chair.

These well-known chairs are unequalled in simplicity of construction, durability and elegance of design. No one article of domestic furniture combines in itself so much real utility and comfort. The combination of uses to which it is adapted renders it an indispensable article in every home where comfort and convenience prevail. The outer frame is constructed of the best wrought iron, neatly japanned and ornamented. Within this iron frame are fitted substantial black walnut frames for the back, seat and extension (or foot-rest,) which are seated throughout with closely woven cane. The upholstery consists of movable cushions, of which the sides and top are covered in any desirable style of upholstering fabrics, with leather or leatherette upon the back, which may be reversed at pleasure.

E. H. LIGHT.—Rustic stand of very pretty design and shown in the Sonoma County Display.

E. H. MARWEDEL.—Brass Bedsteads, Window Shades, Curtain Poles, etc.

This display of bedsteads, of polished brass and artistic design, was a

pleasing feature of the furniture department, while the rich and varied appurtenances for windows formed a fitting background for the well-arranged exhibit.

PACIFIC SPRING AND MATTRESS COMPANY.—Made a fine display of iron bedsteads, woven wire mattresses, folding beds, patent bed-lounges, easy chairs, spring mattresses, bedding, etc., all of their own design and manufacture, except the bedding. The exhibit was only samples taken from their large and varied assortment of furniture, and not made for the occasion. Yet in every respect style, design, workmanship and finish it was of superior quality, and a credit to the enterprising firm who have founded in this city so large and important an industry.

PETER PETERSON.—Tables made from choice specimens of redwood. These were shown in the Humboldt County Display.

W. & J. SLOANE & Co.—Display of Carpets, Rugs, Upholstery, etc.

The display made by this noted firm consisted of the finest, most elegant and expensive samples of carpetings, rugs, draperies and upholstery ever exhibited in this city. The whole was artistically arranged in a room 27 x 40 specially built for the occasion, and fitted up in the highest style of decorative art.

CHARLES L. TAYLOR—1133-35 Market street.—Folding Beds and Upholstered Furniture.

Mr. Taylor makes a specialty in his exhibit of the Welsh Patent Combination Folding-bed, the method of operating which is so simple that any child can fold or unfold it. The bedding and pillows can be arranged ready for occupancy and assured of good ventilation, and the bed may be lowered ready for use in a moment by simply swinging one end from the wall. They lower from the back, leaving the front undisturbed, and securing better ventilation. These beds are manufactured from handsome woods in many artistic designs, and while they occupy no more floor space than other combination beds, yet they contain from three to six other pieces of furniture. The rest of his display consisted of carpets, draperies, rich mantel and top, elegantly upholstered and unique chairs, and other choice furniture.

C. F. WEBER & Co.—Folding Beds, Office and School Furniture.

This was a large and elegant display from the extensive house of A. H. Andrews & Company, Chicago, Illinois, of which Weber & Company, are the sole agents for the Pacific Coast. The Upright Cabinet Bed is claimed to possess many advantages over others, a special feature being the adjustable suspension spring-bed, which will never sag, as tension may be applied where needed. Their office desks were of the most improved kind, of beautiful design and finish. They also had a fine exhibit of the celebrated Bank, School and Church Furniture from the Eastern house.

J. F. WYMAN.—Fay's Water-proof Manilla, for Roofing, Siding, Ceiling, Carpeting, etc.

A very creditable display of this product was made by Mr. J. F. Wyman,

agent for California. The substance from which Manilla is made is a strong, fibrous vegetable product called Manilla, obtained from the Philippine Islands, carefully selected, and, by a chemical process, manufactured into water-proof material, close-grained, tough and strong, and somewhat resembling leather. It has secured an established and continually-widening reputation as a valuable building material. It does not contract nor expand, and by means of a new patent method can be quickly applied to roofs, and, after being properly painted, will outwear wood. Manilla is also extensively used in place of plaster, making smooth, air-tight work, and at half the cost. The carpeting made of Manilla will outwear oilcloth, and is much cheaper. W. H. Fay & Co., the manufacturers of Manilla goods, established business in 1866, and are the pioneers in that line.

CLASS 20.

Billiard Tables, Gymnastic Apparatus, etc.

BRUNSWICK-BALKE-COLLANDER COMPANY.—Display of Billiard Tables, Racks, Cues, Bar and Bar Fixtures, etc.

The Brunswick-Balke-Collander Company made an excellent exhibit of their well-known tables, as also a full supply of bar requisites. The exhibit attracted great attention, showing to what perfection the manufacture has been brought by this great Company. It is stated this Company is the largest manufacturer of billiard tables and the usual adjuncts of the business in the world. The space occupied was elegantly fitted up, and, aside from the elegant tables and cabinet work, the bar and side-board was resplendent with the very finest glassware and costly mirrors.

AUG. JUNGBLUT & Co.*—Billiard Tables and Fixtures.

This was a very meritorious display of California-made goods. They exhibited three tables, the first one being made of solid oak with inlaid panels, and ornamented with elaborately-carved frames which gave relief to the panels. The second table, also in oak, represented in its marquetry boxes a wrestling match and other athletic devices. The third table was more attractive, as being executed in modern renaissance style, and showing to the best possible advantage the excellent workmanship of this firm, it being without varnish or finish of any kind. The center table was set up to show the superior accuracy and quickness of the cushions. All the tables of this firm are manufactured here.

The Delaney and Murphy cushion are used on these tables, they being noted and recognized for accuracy and elasticity.

CLASS 21.**Woodenware, Brushes, Wire Goods, Willow Ware, etc.**

BUCHANAN BROS.—Display of Brushes and Dusters.

This firm made a most interesting exhibit of brushes and their manufacture, and offered thousands of visitors, for the first time, an opportunity of seeing how one of the commonest articles of home use is made. A large amount of bristles and feathers are annually converted by them into merchantable articles, which would otherwise become a waste product. Such enterprise should be liberally encouraged by our citizens.

CALIFORNIA WIRE WORKS.—Wire Ornamental and Useful Goods.

In addition to their other large exhibit, (see Classes 3 and 9) this Company made a large display of goods, comprising innumerable articles for the garden, summer-house and household. It is marvelous into how many objects of art, usefulness and beauty a piece of wire may be wrought. The exhibit as a whole was most interesting to the old and instructive to the young.

JOSEPH DAVY.—Patent Demijohn Case and Box Fastener.

This case is claimed to be an invention of great importance and much needed, particularly on this Coast. It is made of wood, and consists of a box of a size about corresponding to that of the vessel to be packed, with a cover or lid of peculiar construction. To pack the vessel, all that is necessary is to drop the lid of the case. A special device at the bottom of the case is provided for adapting and fitting demijohns of varying height. When the cover is closed upon the demijohn, the vessel is held firmly in place. The box is finally and securely fastened by the permanently-affixed and simple Davy Box Fastener. This fastener consisted of a staple and a bolt, which is an iron disc with the central portion cut out, and is loosely held by a staple driven into the face of the case. A hasp affixed to the lid, having in it vertical and horizontal cuts, is adapted to fit closely over the staple, the other corresponding in width and length to the thickness and width of the bolt, so that when the bolt is raised and held at right angles to the staple and to the face of the box, the cut will pass over the bolt. When the bolt is allowed to fall, the box is securely fastened, without the possibility of accidental opening. To open the case, all that is necessary is to raise the bolt to a position perpendicular to the face of the box and staple, and lift the hasp over it. Wrongful tampering with the fastener may be guarded against by a steel attachment to the bolt.

CHARLES FISHER.—Brooms, in the Santa Clara County Display, made of corn grown in that section of the State.

H. J. HALVERSON.—Butter Kegs.

These kegs were shown in the Kern County Display, and a sample of the immense numbers used to transport the products of her dairies.

HARRISON & DICKSON.—Indurated Fibre Ware.

This substitute for wood and crockery was well shown by samples of wash-tubs, pails, basins and almost every necessary article of the household. They are very light, strong and durable, do not shrink, warp or crack, and no doubt will be generally used.

F. KORBELL & BROS.—Redwood Tank.

This tank, in the Humboldt County Display, was made in the Pavilion, the staves, hoops, etc., being brought there and put together. It was about eight feet in diameter and seven feet high.

H. M. NAKAMURA.—Bamboo Art Work.

This was a fine display of exquisitely-made Japanese bamboo work, consisting of fire screens, flower pots, easel baskets, tea sets, etc.

C. H. TOWNSEND & Co.—F. E. Parson's "Townsend Household Treasure," a patent Kitchen Table.

The exhibit comprised three tables, each showing different improvements. The table, although having been exhibited repeatedly in the Mechanics' Fair, had lost none of its novelty or attractions, and many recommendations were given it by those who had them in their kitchens in constant use. It is comprised of two large commodious drawers for linen, with compartments for knives and forks, rolling pins, spices, etc., two sliding bins for flour and meals, holding 50 pounds each, one kneading board and one cutting board, which fit between the top of the table and the drawers—thus making a complete pantry with everything at hand. Its utility, convenience and practicability are no longer a matter of speculation, for, since it has been placed upon the market, the manufacturers claim there has been sold on this Coast about 15,000. It is a home invention, and, with other exhibits of this Fair, it demonstrates that the hand and brain of the mechanic of our fair State and city are prolific in ingenuity, and that we are keeping pace with the balance of our great country in producing useful inventions.

WM. HENRY TUSON.—Improved Brush for Cleaning Type.

This is an ingenious contrivance, embodying a receptacle for benzine or coal oil combined with the brush. By pressing a spring, a small spray attachment opens and the liquid is distributed over the hairs, just enough to moisten them and to effectually remove the ink from the type. It is said to be a saving, as there is only sufficient benzine used to accomplish its purpose.

WILLOW GLEN BASKET FACTORY.—Willow Ware.

The making of baskets from our native willows is quite an industry in this State, and was well shown in the Santa Clara County Display by the above firm whose works are at San José.

WING SING LOONG.—Japanese Goods.

A large display of unique and high-cost Japanese goods, consisting of vases, bronzes, statuary, carvings, porcelain, lacquer work, etc., also some very fine silk and crape embroidered shawls and scarfs.

DAVID WOERNER.—Casks and Beer Kegs.

As at many fairs, Mr. Woerner made a good display of samples of his manufactures. The immense amount of wine produced in this State necessitates coöperation to correspond. His factory is the largest on the Coast and consumes an incredible amount of lumber for heads and staves and band-iron for the hoops. Until some adequate substitute for eastern oak is found, much of the material used for the storage of wine will have to be imported.

CLASS 22.

Boots, Shoes, Leather, Rubber and Leather Goods, etc.

A. O. COOK & SON.—Leather Belting, etc.

There is an old saying that "there is nothing like leather," and those accustomed to the use of leather for belting purposes believe that the properly-tanned hide is more durable, more easily repaired and runs better than any other material. A. O. Cook & Son had a tastefully-arranged display of leather belts, cup leathers for pumps and fine leather-hose nozzles, all made at their factory on Eighteenth and Fair Oaks streets. The different styles of belt joints—pegged, thonged and riveted—were illustrated, and a portion of a magnificent thirty-inch "Hercules" belt was also on exhibition. Their work is all of the very best, the leather, well tanned and selected with great care.

CROPLEY & SON.—Santa Cruz.

This firm exhibited six varieties of finely-tanned leather that in grain and finish would be hard to equal. They have an enviable reputation among consumers as manufacturers of a superior article, which meets with ready sale.

J. EVERHARDT.—Leather and Angora Robes, in the Santa Clara County Display.

ANGORA ROBE AND GLOVE COMPANY, (San José).—C. P. Bailey, the proprietor had a fine display of Mohair and Angora Robes and Mats in the Santa Clara County Exhibit. They were well tanned and dyed in a variety of colors.

A. S. GABBS.—Patent Trunk Harness.

It is a conceded fact that any device which will hold a trunk together while undergoing transportation is a desirable thing; and as that is the object of the "harness," it may prove a boon to travelers and save an untold amount of misery to those who journey with baggage above a grip-sack.

MARTIN MARR.—Saddle Trees.

This contributor exhibited six styles of saddle-trees made at Petaluma and shown in the Sonoma County Display.

CHAS. JOHNSON.—Loggers' Shoes.

These shoes are made very strong and of a peculiar shape to meet the wants of men who labor in the forest to prepare the lumber necessary for the demands of the hour.

JOHN UTSCHIG.*—Custom-made Boots and Shoes.

Mr. Utschig made a very interesting exhibit of custom-made boots and shoes, nicely displayed in three large glass cases. He is one of the oldest and best-known manufacturers of custom-work in this city; and the fit and style of his boots and shoes receive the hearty approval of all who purchase them.

CLASS 23.

Hemp, Cordage, Paper, Hair, etc.

H. LIEBES & Co.—Exhibit of Furs, Skins, Mats, Robes, etc.

This was one of the most noted and attractive displays in the Pavilion. It was shown in a room specially made and fitted up, with large and appropriate glass-cases for the occasion. The manufacture by this firm of expensive furs into cloaks, wraps, etc., employs a large number of hands, and the superiority of their product is world-wide. Their customers are numbered among the *elite* of every land upon the globe. The skins of the seal, otter and other fur-bearing animals found in our northern waters are the best-known, and are purchased in immense quantities by this firm, who tan and prepare them for market by a process known only to themselves, its superiority being one of the elements of their great success. The style and finish of the garments exhibited were all that the most fastidious could desire; and many a longing eye rested on beautiful articles, the price of which prohibited them from enjoying their possession. Their floor-mats and carriage-robos were also of the best quality. In fact, nothing but the best was shown, and these were only samples of the large stock kept on hand at their store on Montgomery street.

S. P. TAYLOR & Co.—Proprietors of the South Coast Paper Mills.

This Company was represented by a lofty stack of paper of their own manufacture, comprising a very varied range. Straw wrapping paper, blue sugar paper, hardware paper, manila paper and news paper of all qualities were piled up in a pyramidal form—a monument of local enterprise and a challenge to all competitors. Their mills are located on Paper Mill Creek, in Marin County, where, by unlimited water-power and the most improved and modern machinery, they are able to produce in quantity and quality a product well-known along the whole Pacific Coast.

H. F. WHITE.—Display of Twines from the Elm Flax Mills, New York.

This exhibit was a noticeable one, and well deserving of mention. Enclosed in a fine mahogany-framed, glass-sided cabinet was a pyramidal stand on

which were placed every kind of twine in use by the manufacturers of bags and sail-makers on the Coast, and in fact of all other industries where twines are used. Among the samples were gray flax ball twine, broom sewing twine, blocking or loom cord, light color flax ball twine, sailing or bailing twine, fancy colored medium color flax ball twine, white twine, flax and tow yarn, upholstery and mattress twine, bookbinders' twine, flax and hemp spring twine, cable laid twine, and the old reliable grain-sack twine so well known on this Coast.

CLASS 24.

Woolen, Silk and Cotton Goods, etc.

CITY STEAM CARPET BEATING AND RENOVATING WORKS.*—Process and Samples of Cleaning and Renovating Carpets and Rugs.

An examination of this exhibit shows that the chemical means and process employed by this Company removes all grease, dirt and stains from the carpets and rugs with most satisfactory thoroughness, without injuring the fabrics and articles so treated in the least degree. The bright and fresh appearance restored to faded carpets is really something remarkable. The process kills all moths or other insect life that may be lurking in the fabrics treated, and there is every reason to commend the process used on the articles shown. They also exhibited a compound for renovating and cleansing fabrics, which is a very useful and convenient article for the household.

JOSEPH NEUMANN.—Display of Native Silk-worms and their Products.

This indefatigable Professor of Silk Culture made a very instructive and important display of the Native Californian Silk-worm in its various stages, from its creation to its full development; also, a large quantity of reeled silk, and some fine samples of the same woven into fabrics. Mr. Neumann believes this to be the beginning of a new and most important industry on this Coast, as the worm abounds in most localities and feeds upon the leaves of the *Rhammus Californicus*, or wild coffee plant, also known as *Cascara Sagrada*, or "Sacred Bark." He had just returned from Washington, where the present exhibit was shown, and the Government, after due consideration and investigation of his discovery and its effects, granted him an appropriation to carry on his experiments. This was a tribute and recognition of Mr. Neumann's genius, and a belief that its development in the future may become a great industry, adding to the material wealth of the nation.

PACIFIC CLEANING AND DYEING WORKS.*—

J. Spaulding & Co. made a large display of cleaned and renovated carpets, rugs, etc., and samples of dyed articles. The ladies, who are the true judges of merit in household renovations, give the works of Spaulding & Co. their warmest praise for the perfection of their system of cleaning and renovating

carpets; for, when returned, after being submitted to their cleansing process and relaid upon the floors, they look almost as bright, clean and attractive as when first put down.

The process used by Spaulding & Co. does not injure the fabric or the colors of the carpet in the least. The men who work in the establishment are experienced hands, and are cautious and careful and fully understand the business. It has been patented and gives the firm the sole use of it, and also gives them a preference of having the very best machinery that has been invented. They also had a special compound prepared for home use, for cleaning and removing stains and grease from all kinds of fabrics.

MRS. W. H. PEPPER, Petaluma.

This lady exhibited two samples of silk, one from worms reared on leaves of the mulberry, the other on leaves of the Osage orange. From the samples it may be assumed that the latter may yet be an important factor in sericulture.

SAN JOSE WOOLEN MILLS.—Blankets.

This firm made a display of fine blankets, tastefully arranged, which were shown in the Santa Clara County Exhibit. The good quality and superiority of California blankets has given them a world-wide reputation, and those presented at this time for the inspection of the public, were worthy of the praise universally bestowed.

SANTA ROSA WOOLEN MILLS.—Blankets and Flannels.

This Company made another fine display of California industry. It consisted of blankets and flannels, a part of Sonoma County Exhibit. The value of such an enterprise in a community should be recognized and encouraged in every possible way. It affords employment and a home market for wools, and becomes both a source of pride and profit. The flannels shown, white and colored, were particularly fine, and have an extensive sale.

F. THOMAS.*—Parisian Dyeing and Cleaning Works.

As heretofore, Mr. Thomas made a comprehensive display of what chemistry, skill and applied science will do when directed by a mind strong with energy and experience. The specialties of these works are dyeing of silks in the skein (sewing and embroidery silk) and dyeing silk in the piece, such as India silk; re-dyeing of dress-goods, for which they claim to be without a rival, as they give not only the new finish, but, what is of great importance, bring the material back to its original width; dyeing and cleaning of ladies' and gent's dresses and suits; dyeing and cleaning of rugs, the black especially being noticeable for its perfect shade and finish; dyeing and cleaning of blankets and curtains, in which particular pains is taken and satisfaction guaranteed.

MRS. P. E. MOTTEN, of Stanislaus County, made an exhibit which entitles her to the highest praise. It was two pairs of stockings made from California cotton. The plant was raised, made into thread and knitted by her own hands—an achievement she may justly be proud of.

CLASS 25.

Gentlemen's Furnishing Goods, Regalias, etc.

H. M. HEINEMAN.—Gloves, Neckwear and Suspenders.

Mr. Heineman is a large manufacturer of the above articles, of which the samples shown were a fair representation. His rule is to put on the market nothing but the best, and by so doing has established a reputation that insures a ready sale for all he produces.

J. H. KRUGER.—Display of Canes.

Mr. Kruger is a large manufacturer of these common and almost necessary part of a gentleman's outfit. He uses an immense amount of our native wood and also imports much that is not obtained here. Orange is now a favorite wood used for walking sticks, and the lopped limbs of our orange orchards, heretofore a waste product, are becoming valuable. Mr. Kruger is a skilled workman himself, and the ease and certainty with which he makes the "crooked straight," if it could be applied to the moral law, would certainly give him the power of being a great reformer.

McPHERSON & CONWAY.*—Display of Shirts and their Manufacture.

This interesting exhibit was at the west end of the main floor, where the entire *modus operandi* of making a shirt, from cutting the cloth to the finished, unlaundried garment, was illustrated nightly to large audiences. The booth was tastefully decorated and samples of their great variety of shirts were displayed. In addition a half-dozen girls were at work making garments, the machines being run by electricity. A special feature of their business is the manufacture of base-ball uniforms, of which they make large numbers. The firm employs white labor exclusively and have three cutters and twenty girls at work in the factory, and as many more outside. From a small beginning a few years ago, they have built up a trade worth many thousands of dollars annually.

D. NORCROSS & Co.—Regalias, Society and Military Badges.

The goods exhibited were entirely of home manufacture, the hand-work of women of our own city, which gave added merit to the display. The work turned out by this firm is equal, if not superior, to any imported, and it is sold at reasonable prices. The embroidery in gold and silver was artistic in design and beautifully finished. Any article needed for uniforms or society decoration, can be supplied in short order from designs on hand or furnished with the order.

L. L. REY.—Hats, and their Manufacture.

Mr. Rey had on exhibition the complete process of hat manufacture, including soft felt and the ordinary silk hat. There was nothing in the Fair which could more thoroughly convey to the public a comprehensive idea of an

important industry in all its branches than this display. Last year Mr. Rey was awarded a grand silver medal for his effort, and, no doubt, would this year have been honored with a high award had premiums been given. It was a very meritorious and deserving exhibit.

DAVID WILSON.—Walking Canes made of Redwood Bark.

These canes are an entirely new departure in the way of walking sticks. They are not, as would be supposed, light and easily broken, but, on the contrary (by a peculiar process) the bark is made more solid than natural wood and then turned and polished. With or without trimmings (which may be of gold, ivory or other material) they are unique and beautiful, useful and ornamental, and another novelty and use for our famed Redwood. They were made in Humboldt County.

R. VALENTINE.*—Key Cutting System for Gentlemen's Garments, and Display of Fine Woolens.

This exhibit of imported woolens made was one of the best ever seen at our Fairs. Orders for suits were taken on the spot, and customers could watch the process of cutting and making up the suits if they desired, as Mr. Valentine had a corps of experienced tailors at the Fair. The Key Cutting System is claimed by Mr. Valentine as his own invention, and he guarantees every garment made by it to be perfectly satisfactory. He showed commendable enterprise in making so comprehensive and instructive an exhibit, and will, no doubt, receive as a reward much increased patronage.

CLASS 26.

Ladies' Furnishing Goods, including Millinery.

W. S. ALLEN.—Display of Corsets.

These necessary and useful adjuncts to women's apparel were shown in their various forms in a space neatly fitted up, and politely attended by competent young ladies, who explained to inquiring visitors the good points of their construction and the comfort obtained by their use.

MRS. JOSIE BAUER exhibited what is termed the "Lightning System of Dress Cutting," probably so named from the terror it strikes in the minds of holders of other competitive systems. The attendant in charge lost no opportunity of explaining to ladies how easy and sure a perfect-fitting dress could be cut by the system, with little experience and without loss of material.

MARY V. DELP.*—Parisian System of Dress Cutting, Fancy Toilet and Art Needle-work.

Mrs. Delp says the Parisian method is very simple and can be thoroughly learned in a short time by anybody of ordinary ability. Every figure, no matter how irregular, can be fitted by it. The Parisian method teaches you

how to cut a basque with one or two darts, also waists without darts, fitting perfectly smooth to the figure. It is a common-sense method of making a pattern for a dress or over-garment, from actual measurement of the body, with the use of a small square only. The needle-work consisted of arrasene, chenille, plush and ribbon embroidery also on plush.

W. FRIEDMAN.*—Display of Cloaks, Wraps, Jackets and Quilted Satins.

This was a very attractive and really meritorious exhibit of San Francisco workmanship and manufacture. Mr. Friedman, we believe, has the only machine for quilting satin in use on this Coast. The stitching is very correctly done and the work in every respect is creditable to the manufacturer. The cloaks and jackets were displayed upon dress forms and were of fine quality and workmanship, showing that the ladies of San Francisco can be well dressed by patronizing home industries, and that there is no necessity to go abroad or to depend upon importers for elegant and attractive costumes.

W. H. HOLMES displayed a case of elegant Millinery Goods of the latest style and most exquisite finish. Some of the hats were real works of art, the material, color and ornaments being blended in a manner known only to connoisseurs in female adornment.

A. LA VALLEE had on exhibition a large and varied assortment of Ladies' and Children's Underwear of fine material and the best of workmanship.

W. M. LOUDON exhibited the Studabecker Tailor Square for Dress-cutting, with a full line of all kinds of adjustable dress and skirt forms; also cloak forms, and papier maché busts, and boys' forms; folding-tables, lap-boards, and pressing-frames, etc., for which he is the agent.

In regard to the "Square," he says it is rapidly superseding all other systems, because it is easier to learn than any other. The measurements are in inches, and the drafts are made by inch measures and cannot fail to be accurate in every particular. The cutter is not confined to a set form or rule, but can place the seams to suit the form or taste of the customer. The system of drafting is simple, and the printed instructions and diagrams accompanying each square are plain and comprehensive.

MRS. CARRIE MURRAY displayed the Ever-ready Dress Stays and the Ever-ready Dress-skirt Expanders.

Mrs. Murray says: "The ever-ready dress stays are used as a substitute for whalebone in staying the seams of a lady's dress-waist, requiring no pocket and no previous preparation for attaching to the seam of the waist. They are encased in gutta percha, making them perfectly water-proof, and the outside coverings are warranted fast colors. The stay is always stationary, never slipping on the seam or fraying at the edges. The material used in place of bone is the finest tempered spring steel, being preferred by all leading dress-makers, as steel will not conform to the heat of the body. The ever-ready dress-skirt extenders, or bustle springs, are used as a support and to give a finished shape to the dress-skirt. They are covered by patents, as are the ever-ready dress stays."

ALFRED NEUMANN.—Tailor-made Equestrian Habits.

This was a particularly attractive display, as the articles were shown in full-sized figures on full-sized horses. The fit, style and drapery of the habits were greatly admired by visitors and praised by competent judges of that difficult part of Ladies' Tailoring.

MRS. M. H. OBER.—Display of Corsets, Shoulder Braces, Underwear and other articles for Ladies' use.

Mrs. Ober is deserving of great praise for her energy and business qualifications in building up on this Coast an enviable trade in the manufacture of her Health Reform goods. They are well-known and universally praised. She employs a large number of girls at her factory and store, 333 Sutter street.

L. F. SMITH.—[See Class 16.]

MME. RENNEL had a Tailor System of Square Measurement for Dress-cutting. She says that with it every garment worn by ladies or children may be cut to fit perfectly. It is also simple and easy to learn, not being at all complicated.

D. SAMUELS.—Lace Goods, etc.

In the gallery, in a large and costly glass-case, was the exhibit of D. Samuels of the Lace House, 123 to 129 Post street. It was the finest display of high-cost articles ever made in this city, and the center of attraction for ladies. In the center of the case was an elegant black Chantilly lace overdress, the skirt being forty-two inches long, and the waist made and fitted to the shape. This dress was designed by Bucholtz Frères of Brussels and is valued at \$550. It was draped over a delicate peachblow satin dress, and was certainly a thing of beauty. On each side of the central piece was a lace shawl, one of Point d'Alençon, valued at \$900, and the other of Point Duchesse, valued at \$350. They were much admired, and many an envious glance was cast upon them. In addition to these were two India shawls of the most expensive kind and great beauty. Scattered among the other pretty things were a number of beautiful fans, imported by the house direct from Vienna; one of pearl, elegantly hand-carved, was valued at \$125. The collection of laces was particularly fine, and included specimens of Point d'Angleterre, Point d'Alençon and Point d'Applique. There was also brocade velvets, silks, gloves, embroidered table covers and many other articles. The value of the display was many thousands of dollars, and Mr. Samuels well deserved the praise and admiration so freely given for his public spirit in thus placing on exhibition goods so liable to damage and yet of such cost and rarity.

CLASS 27.

Tobacco, Leaf and Manufactured.

There were only a few exhibits in this Class, mostly samples, and shown in County Exhibits.

JESUS ROMO, of Stanislaus County, displayed some thrifty tobacco plants; also some tobacco leaf well cured and of fair quality.

CLASS 28.

Chemical and Pharmaceutical Products.

ÆTNA MINERAL WATER COMPANY.—Display of Ætna Mineral Water.

This is a pure, natural, effervescing mineral water, from Napa County, whose merits are becoming well known. An analysis gives the following result:

	Grains.
Chloride of Potassium.....	30.710
Nitrate of Potassium.....	.660
Silicate of Potassium.....	.780
Bora-Silicate of Potassium.....	.450
Borate of Soda.....	19.344
Carbonate of Soda.....	21.870
Chlorate of Sodium.....	18.550
Sulphate of Soda.....	.020
Carbonate of Lime.....	.750
Sulphate of Lime..	.290
Carbonate of Magnesia.....	.550
Carbonate of Iron.....	.210
Oxide of Iron.....	.100
Ammonia.....	.006
Organic.....	.340
Alumina.....	2.130
Total grains per gal,.....	96.760

MRS. CHRISTINA BOGLE.—Quaker Medicines.

Mrs. Bogle prepares these medicines, which are entirely of vegetable composition, and claims them to possess wonderful curative powers, which she exemplified then and there by removing aches and pains from many by one application.

W. H. BONE.—C. C. Liniment.

If faith and energy count for anything, Mr. Bone will succeed in placing his medicament in the first rank of curative remedies; for he is an indefatigable worker, has tested it on himself and has testimonials of its value from many others.

C. BROWN —Mineral Water, from a spring in Stanislaus County.

G. W. COBURN & Co.—Perfumery, Toilet Soap, Sapolio, Mineral Water, etc., of which they are the manufacturers' agents.

This was one of the finest and most attractively-arranged booths at the Fair, resplendent with plate glass and silver ornaments. Alfred Wright's celebrated perfumes, of Rochester, N. Y., in all styles and packages; also his flavoring extracts, face powder, and, last but not least, his exquisite sachet powders. The celebrated perfume, "Mary Stuart" was tested by thousands and many words of praise were spoken for its delightful fragrance. The world-renowned Sapolio was shown in the shape of a well-proportioned monument. This old reliable house-cleaner was set off by beautiful pictures, and many a good house-wife gave it a deserving compliment as she recognized the well-known packages.

Rubinah Condul Mineral Water, from the Condul Springs, in Spain, a noted aperient. S. R. & J. C. Mott's Sparkling Ciders were also shown. The latter is warranted to keep pure and sweet from season to season. Another important article was Berlin Putz Pomade, an excellent cleanser of gold, silver, brass, or any metal.

DIXON CRUCIBLE COMPANY.—Display of Dickson's Graphic Goods.

This exhibit, neatly arranged in fine show-cases, comprised samples of all grades of pencils and other articles of their manufacture now well-known throughout the world.

J. EVERDING & Co.—Starch and Granulated Soap.

This firm have the only wheaten starch and granulated soap factory in the State, established in 1854. Their factory is in West Berkeley. Everding's wheaten starch is used by all the first-class laundries in the city. It is doubly refined and chemically pure, and imparts radiant beauty under the iron. The granulated soap being made from the residue of wheaten starch, it contains no grease, rosin or potash, is not injurious to the skin or fabric, and for paint has no equal. Being a strictly Californian industry, it deserves the patronage of all who desire the prosperity of our State.

ENGLEBRECHT, SON & Co.* exhibited the "Vienna Coffee Flavor." Patented.

The process of manufacturing is a secret, but the material used is represented to be pure California Figs. The circular says "the flavor is to coffee what seasoning is to meat; it imparts richness, improves the taste, makes it nourishing and wholesome, helps digestion and gives it a splendid color, and, what is not to be disregarded, saves one-third coffee."

The exhibitors distributed free many thousand packages of samples of the Flavor, which no doubt have well repaid the expense.

GIANT POWDER COMPANY.—Display of Giant and Judson Powder Caps and Fuse.

As at many other exhibitions, this company made an exhibit of their various explosive compounds so necessary to carry on the great mining industries of this coast. No practical experiments or tests of the powder was made this year, as its character and power is so well known that demonstration is unnecessary.

ED. E. GOODRICH (San Jose) made a remarkable exhibit consisting of a large Olive Tree, Olive Cuttings, Fruit, samples of the Oil and models of the Press and appurtenances used in its extraction. This was instructive and interesting, as few people in this country understand the process.

GEO. HOOPER made a fine display of Olives and Olive Oil from his orchards in Sonoma county. He is one of the largest manufacturers in the State, and his business constantly increasing.

GREENBAUM & Co.—Manufacturing Perfumers.

This firm made an elegant display of fine Handkerchief Extracts, Colognes, Toilet Waters, Camellia Face Powder, Tooth Pastes and Powders, and other toilet articles. These goods are manufactured right here in San Francisco, and employ eleven hands. If properly encouraged they could give employment to many more. Their goods are equal if not superior to the imported; but prejudice against home-manufactured goods is so great that it has been difficult to induce the dealers to try them. The firm has therefore opened an elegant establishment at No. 128 Post street where the public can purchase the goods, and where anyone sufficiently interested can visit the laboratory. Mr. Wm. L. Greenbaum, the perfumer of the firm, will be pleased at any time to explain the various processes and articles used in this really important industry.

FRANCIS GUILLERMET'S Display of Hair Tonic brought revived hope to many a man with thin locks, as its use, according to directions set forth in a circular, is an infallible preventative against loss of hair.

HILLER DRUG COMPANY made a display of Hiller's Special Prescriptions, prepared and put up here in the shape of tablets, to simplify the administration and divide the dose, so that no mistake can possibly be made in selecting or giving the proper remedy. They are convenient, and will aim at once to cure the diseases to which they are applicable.

MRS. H. JACOBS exhibited "La Tosca" Perfumery and Sachet Powder.

M. JOSEPHSON.*—Process and Compound for Renovating and Cleaning Wall-paper and Fresco Work.

An examination of Mr. Josephson's exhibit shows that his process has great merit. It does not injure the wall-paper, which can be cleaned on the ceiling or wall, and does not blur the colors. It removes all smoke and dust, leaving the appearance of new paper. This process is not expensive, costing on an average about one-sixth the price of re-papering, and the work can be done in much less time than re-papering would ordinarily consume. The process is

not at all offensive in its nature, and wall-paper in stores and business offices can be cleaned without any interruption to business. The material applied to the paper is a secret with the exhibitor.

A. L. LENGFELD, of the Baldwin Pharmacy, made a display of Yosemite Face Powder, Yosemite Cologne and other Toilet Articles, mostly his own manufacture.

GEORGE F. LYON.—Crouch's Cleaning Preparation for Cloth, Carpets, etc., has been a number of years before the public and gives good satisfaction.

MISS BELLE MAZE, of Stanislaus County, showed some of the good, old-time Lavender, so dear to the heart of house-keepers.

L. M. MCKINLEY.—Mineral Water from Stanislaus County.

CLARA MELVIN* made a display of Rouge, Langtry Cream and Acme Lotion, prepared and put up in neat packages at her laboratory.

The rouge and Langtry cream are harmless compounds, and apparently very efficacious toilet preparations. The acme lotion is used for chapped or rough skin. The exhibitor has in her possession many testimonials from chemists and physicians as to the merits of her articles, which meet with ready sale throughout the city.

L. G. MEADE made a small display of Mineral Waters from Contra Costa County.

MRS. E. G. MOORE, of Stanislaus County, exhibited some Lye and genuine Soft Soap, so well known in the country but little used in the city.

L. S. MYERS.—Koumiss, or Milk Champagne.

Koumiss is a nourishing beverage prepared from pure, rich cows' milk, containing all the nutritive elements in a readily digestible condition. The peculiar process of fermentation which the milk undergoes in the preparation of Koumiss does very much of the preliminary work of digestion that otherwise must be performed by the stomach. It is prepared here, and is much sought for by invalids.

H. E. OSBORNE.—Display of Utwah.

The most noticeable feature of this exhibit was a colored gentleman with swallow-tail coat, white gloves and immense diamond pin, who handed circulars with Chesterfieldian politeness to dazed visitors.

PACIFIC CONGRESS WATER COMPANY made quite a display of their Mineral Water from Santa Clara County.

This is a favorite water with many, and believed to possess great medicinal virtues.

SEA-SICK CONCERN.—Royal Sea-sick Troches.

The name alone of this exhibitor is suggestive of misery, and possibly it was a keen eye to business that suggested it. However, it is claimed by the use of this preparation that the usually attendant physical discomfort of a sea voyage will be averted, and, if so, we trust the "sea-sick concern" will live on.

SKAGGS.—Water from the Celebrated Hot and Cold Skaggs Springs in Sonoma County.

PROF. R. K. SHIPLEY.*—Worm Medicine.

The affection and inseparableness of some dumb animals for man is wonderful, and in some cases very touching indeed. In no instance is it shown with more force than in the tape-worm, who resists to the last degree all efforts to separate him from the one with whom he has been on close and intimate companionship since earliest recollection. The Professor, however, has invented a simple prescription, that, when taken in the stomach, causes at once in the worm a sudden revulsion of existing friendly feeling and an utter loathing of home and surroundings; and he forthwith takes his departure never to return.

DR. BARLOW J. SMITH.—Caloric Vita Oil.

The Doctor claims this to be not only an indispensable household remedy, but invaluable to all classes whose occupations or professions subject them to accidental and painful injuries, and says it has the indorsement of the Fire Department, Police Department, athletes, shipmasters and sea-faring people. It has also received the indorsement of prominent racing and trotting stables of the Coast as a safe and active healing remedy for horses.

THE STANDARD SOAP COMPANY was represented by a large display of samples of the various soaps, both toilet and staple, manufactured at their extensive works at Berkeley; also, fine perfumery, glycerine and candles.

The manufacture of perfumery is comparatively a new branch of their business, but is meeting with great success, as nothing but the very best material is used, and only skillful and competent chemists and workmen employed. Not only does their products reach all over the Pacific Coast, but their trade extends to the Eastern States and westward to Asia, Australia and other lands.

STODDART BROS. made a special display of Face Powders of their own manufacture, also Toilet Soaps and other articles.

THE I. G. POPP MANUFACTURING COMPANY had a fair display of the specialties they manufactured, consisting of Toilet Articles, Tooth Paste, Powders, Soaps, etc.

THE J. T. CUTTING COMPANY.—Dr. Price's Baking Powder. (See Class 30).

M. TOBIAS & Co.—Carpet Cleaning Compound for renovating and cleaning carpets without removing them from the floor.

UNION MATTOLE WELLS showed a quantity of Crude Petroleum from Humboldt county.

E. N. WILSON.—Vaporizing Inhaler for home treatment of diseases of the head and lungs.

C. J. WOODBURY, OR WOODBURY OIL COMPANY.*—Lubricants.

This exhibition comprised an entire line of Lubricants manufactured at the works in this city—oils for the lubrication of all portions of the steam engine,

journals and shafting, and all general machinery, also oils for railway car and locomotive service. These oils are manufactured from the finest natural and filtered mineral and vegetable oils imported from the East and our own Californian products. Their special merits are that they substitute for the several purposes mentioned the lard, sperm, whale, castor, fish and other oils on which the coast has so much depended. Also included among the samples is one of pure Signal or Binnacle Oil.

CLASS 29.

Specimens of Mineralogy, Geology, Zoology, Botany, etc.

[Some of the articles included in the following division are not correctly classified, but appear here to conform to the class given in the alphabetical index, pages 34-60.]

MISS E. J. ARNOLD had some fine and rare specimens of Rock from the natural bridges of Calaveras County.

ARIZONA SANDSTONE COMPANY—Los Angeles had on exhibition the finest and largest block of sandstone ever shown in this city. It was of uniform texture, reddish in color and elaborately carved from an artistic design. With such stone in unlimited quantities, the next decade will probably show in this State some of the finest buildings in the Union.

S. BLUM of Contra Costa County showed some fine specimens of Soap Stone.

BOARD OF TRADE, San Jose, 200 Varieties of Cut Flowers. (See class 42 Santa Clara Display.)

C. H. BOGART—(See Class 33.)

J. B. BOOTH, of Stanislaus County, displayed quite a collection of curios from that locality.

E. BOURGIGNON added much to the attractions of the Santa Clara Exhibit by a collection of growing plants.

MRS. J. F. BOYCE had Ornamental Shrubs in the Sonoma County Exhibit.

J. K. BRUNT exhibited a fine quality of lime from San Benito County.

CALIFORNIA SLATE COMPANY.—Samples of Slate from their Quarries in El Dorado County.

From their circular we learn that they are able to furnish any sizes that may be required, of an average thickness of three-eighths of an inch. The color of their product is a rich, blue-black hue, of fine grain and unusually smooth surface, which will impart to any building adapted for slate roofing a graceful

and handsome appearance. As is well known, slate is gradually taking precedence over all other material for roofing purposes. It will generally outlast the life of any building, never requires painting, is a perfect resistant to fire, is storm-proof and imparts much warmth to any building covered with it.

J. CHOATE.—Collection of Woods and Ores from Stanislaus County.

E. CLARK.—California Woods.

REV. MR. CLIFFORD, of Santa Rosa, had a fine display of peculiar petrifications found in Sonoma County.

H. COLE.—Ores, etc., from Stanislaus County.

MRS. C. L. CONNORS, of Kern County, showed several samples of Gypsum and Grasses.

A. E. DAVIES placed in the Santa Clara display a collection of Native Woods from that part of the State.

J. S. DRURY showed some remarkable fine samples of Ramie grown in Kern County. Mechanical ingenuity will yet invent some machine that will cheaply put in marketable form this prolific and most valuable product.

A. DUHEM.—The exhibit of plants, fancy grasses, shrubs and choice flowers made by Mr. Duhem, on the main floor, shows to what perfection the growth of flowers can be brought by the exercise of judicious care, governed with a thorough knowledge of plant life and requirements.

MRS. H. DUNN, of Sonoma County, added much to the attractiveness of that exhibit by a display of beautiful flowers.

FLANIGAN & BROSNAN.—Specimens of Marble from Humboldt County. Interesting as showing how universal is the product in this State.

MRS. H. FOGARTY, Stanislaus County, showed a variety of Palm Leaves.

H. FORTRIEDE.—[See Class 40.]

ED. E. GOODRICH, of San José.—Fine specimens of Building Stone.

A. L. KNOWLTON.—Display of California Minerals.

D. MADDUX.—Asperetta, Grass and Clover, from Kern County.

MRS. MARRIOTT, of Kern County, decorated that exhibit with Palm Leaves.

M. L. McDONALD.—Sugar Cane raised in Sonoma County.

WM. MOORE.—Minerals and Ores from Stanislaus County.

L. W. MOORE.—Very fine specimens of White and Yellow Sandstone, from Santa Barbara.

MOUNT DIABLO MINES in Contra Costa County. A quantity of Gold, Quicksilver and Silver Ores.

MURPHY & GUERNE.—Redwood Log from Sonoma County.

C. A. MURDOCK, of Humboldt County, exhibited a fine pair of Elk Horns.

THE NEW IDRIA MINES, of San Benito County, made a fine display of Cinnabar Ore from that noted deposit.

W. D. PERRINE.—Samples of Roofing Slate from the Chili Bar Quarries in El Dorado County.

There is no question but the samples exhibited were the finest specimens of California slate, both as to size and smoothness, ever shown in this city, and received the unqualified praise of architects and builders. With such lasting fire-proof material for roofs almost at our very doors the rates of fire insurance in the near future should be materially reduced.

E. PHILPOTT.—A beautiful Plant (*Lilium Aratum*).

I. C. PRESTON.—Copper Ore from Humboldt County.

QUICKSILVER MINES, San Benito County, Flask of Quicksilver.

J. RAAP.—Minerals and Fossils from Contra Costa County.

The fossils were of particular interest to students of anthropology, and what is supposed to be a part of a *Seminopithecus Entellus* is particularly prized by the owner.

O. RAAP.—Cherry Gum and Petrified Wood from Contra Costa County.

L. RADOVICH.*—Collection of Mineral Specimens and Samples of Ores, Mineral Formations, Precious Stones, Petrifications, Crystals, Stuffed Birds, etc.

These were contained in seven show-cases, classified and representing a collection from all the mineral-producing districts on the Pacific Coast, from South and Central America to Alaska Territory, including specimens of rubies, rock, etc., from Wrangel Land (where the "Jeannette" was lost) and specimens from other parts of the world.

Case No. 1 contained a miscellaneous collection of curios from various places on the Pacific ocean, also a set of miners' prospecting tools, etc.

Case No. 2 contained a collection of precious stones, minerals, petrifications, curios, corals, crystallized petrifications, analyses of minerals, all classified; wire silver specimens, ancient coins, Continental paper money, pure silver specimens, crystals, shells, curios, etc.

Case No. 3 contained two silver bricks and one brick composed of gold, silver and copper, also one large gold and silver specimen of extra value—all from the workings of ore taken from the Lady of the Lake mine, worked at the Bullion mill, Bullion district, Lander county, Nevada.

Case No. 4 contained miscellaneous loose specimens of natural minerals, sulphur, crystal formations, bituminous rock, copper ore, silver ore, etc.

Cases No. 5, 6 and 7 contained specimens and samples of ores and minerals, gold and silver, lead and copper bearing, and also a miscellaneous collection of crystals, water and slag formations, galena, arsenical crystals, etc., from all parts of the Pacific Coast, specimens of copper ore, asbestos, curios, etc., from Arizona and Mexico.

There was also a cabinet of stuffed birds from South and Central America, Mexico and California; a stand of wheat and wild oat hay raised in a dry summer upon the Idlewild ranch, San Antonio valley, Santa Clara county, eleven miles east of Mount Hamilton.

Mr. Radovich is entitled to much praise for his public spirit in placing his large collection before the public. In addition to the above he had exhibits in Classes 5 and 39, and, not heretofore mentioned, working models of a Capping Machine for bottling wine, etc., Sewer Gas-Trap, Shipping Packing-Box and plans of a Railroad Safety Stove.

E. L. REYNOLDS—Samples of Ore from Fresno county.

E. M. ROBERTS, Kern County.—A Banana Tree, thrifty and promising well for fruit next year.

WILL C. ROGERS, of Santa Rosa, made a fine and interesting display of Birds' Eggs of almost every variety known in California.

JESUS ROMO.—[See Class 27.]

W. H. ROSCO.—Petroleum from Humboldt County.

MRS. E. RUFUS.—Display of Flowers in the Sonoma County exhibit.

S. P. SAUNDERS.—A curious Redwood Knot in the Santa Clara County exhibit.

SKAGG.—[See Class 28.]

MRS. E. O. SMITH, Santa Clara.—Seed Sign.

This unique piece of woman's handiwork was exceedingly well done, and placed over the Santa Clara County exhibit.

L. F. SMITH, of Chico, Butte County, made an exhibit of prepared samples of every known wood native to that county. Every county should have such a collection in some public office.

STATE BOARD OF FORESTRY.—Coniferæ of California.

The following description of the exhibit was prepared by Prof. J. G. Lemmon, Botanist, and Mrs. J. G. Lemmon, Artist, of the State Board. For want of space the botanical names given by the Professor have been omitted:

This, the first exhibit by the State Board of Forestry, is not as large and as general an exponent of its aims and work as could have been placed had the space been greater and more time at hand for preparation. Not till July 25th, at the last meeting of the State Board, was it decided to attempt an exhibit in order to further popularize and make its aims and work known throughout the far-away as well as near sections of the State. The Board acted unanimously upon the suggestion of Mrs. J. G. Lemmon, Artist in the State Board of Forestry, that an exhibit be made consisting of tree specimens of the coniferæ, paintings, photographs, prepared woods, sections of the wood and bark, cones, etc., all to be appropriately placed, systematized and named. This result has been reached, as may be shown by the following brief description: An excellent space of 17x25 feet on the main floor, for a court, was accorded by the management. Two tables 25 feet long, with inclined faces, were placed for the display of the prepared Herbarium specimens; two pyramidal stands were put within the court for the wood and cone display; four easels and a column of the Pavilion for an exhibit of water color paintings of characteristic branches of the pine family and photographs of the pine trees, of which a brief summary must be given in order to make a clear report of this special exhibit,

The following condensed description and classification is furnished by J. G. Lemmon, Botanist for the State Board of Forestry: Of the seventy-four species of pine, thirty-four are found in the territory of the United States; twenty-two of them are on the Pacific Slope west of the Rocky Mountains, and of these seventeen are found within the limits of California.

Botanical specimens of each of these California pines have been prepared with great care, exhibiting a branch of each tree specie with its leaves, infant cones, male florets, seeds, etc., all displayed on white card board 14x22 inches in size, and in the following order:

TABLE ONE.—THE PINES.

FIRST SECTION included the four white Pines, with their soft, light, less resinous wood, and smooth, pendent cones.

1st Group—The sugar pines, with elongated cones: 1. Great sugar pine; 2. Small sugar pine.

2d Group—The Alpine species, with shorter cones: 3. Limber-twig pine; 4. White-stemmed pine.

SECOND SECTION contained the thirteen pitch pines, with more resinous, harder heavier wood and more rough and prickly cones.

1st Group—With fibrous woody cones: 5. Tremont's nut-pine; 6. Parry's nut-pine; 7. Balfour's pine bristle-cone; 8. Yellow pitch-pine; 9. Black pitch-pine.

2d Group—Mostly trees of the Coast ranges, with hard, heavy, persistent cones: 10. Torrey's, or Soledad pine; 11. Sabin's or digger-pine; 12. Coulter's or big-cone pine; 13. Monterey pine; 14. Knob-cone pine; 15. Prickle-cone pine.

3d Group.—Thin-barked trees with very small sub-persistent cones: 16. Murray's, or Tamarack pine; 17. Scrub or twisted pine.

TABLE TWO.—MEMBERS OF THE OTHER CONE-BEARING TREES.

1. SPRUCES, with depending, coherent cones: tide-land spruce, white spruce, silver spruce, Douglas or black spruce.

2. FIRS, with erect cones, the scales of cones falling away from the axis at maturity: White-bark fir, red-bark fir, Shasta red fir.

3. REDWOODS.—Immense trees with reddish wood; sub-globose cones; wedge-shahaped scales; Big tree, redwood.

4. CEDARS.—Large trees with scale-like leaves and small, oblong, flat-scaled cones: incense or post cedar, red cedar.

5. CYPRESSES.—Mostly large trees, with sub-globose, woody cones, having shield-shaped scales: Monterey cypress, Lawson's cypress, yellow cypress.

6. JUNIPERS.—Cones reduced to berry-like fruit: Western juniper, Alpine juniper.

7. A group of small trees with one-seeded fruit: Western yew tree, California nutmeg tree.

8. A group of joint stems; shrubs with long, pliant, rush-like stems and small, much modified cones: Sierra Nevada joint-stem. The latter-named plant was placed in the exhibit of Coniferae to complete the various representative resinous-juiced cone-bearing plants.

WATER-COLOR PAINTINGS.

On each of the four easels in the corners of the Forestry Court are two water-color sketches, 15x22 inches, of California cone-bearing trees, portraying a branch in natural position, with leaves, scales, infant and matured cones, seeds, wings, etc., in natural color and size, as follows:

Pinus Lambertiana, Sierra County, Northern Cal.; *Pinus Parryana*, San Rafael Mountains, Lower Cal.; *Pinus Ponderosa*, Plumas County, Northern Cal.; *Pinus Jefferyi*, near Lake Tahoe, Northern Cal.; *Pinus Torreyana*, Del Mar, San Diego County, Cal.; *Pinus Tuberculata*, near Mount Shasta, Northern Cal.; *Pinus Contorta*, Mendocino Coast, Northern Cal.; *Pseudotsuga Douglasii*, Sierra County, Northern California.

On a pavilion column were placed two water-color sketches, natural size, of *Abies Magnifica*, Sierra County, Northern Cal.; *Abies Concolor*, Plumas County, Northern Cal. Also two smaller sketches of, *Pinus Murrayana*, Weber Lake, Northern Cal.; *Pinus Monticola*, Meadow Lake, Northern Cal.

Photographs and engravings of the noted "Big Trees," large and small-sized pictures to the number of about twenty-five, illustrating many of the pines, were scattered about the remaining spaces, including eight large-framed pictures. Polished woods and those cut from the trees to show bark, sap, and heart-wood, giving a good idea of the quality of the various trees, were displayed with the cones and flowering branches, affording ample material for close observation and study as regards the healthy, fine development and growth of the trees; also, ample specimens, showing how the trees may be and are attacked by their several enemies, both vegetable and insectivorous. All afforded an opportunity of forming an idea of the design and work of the State Board of Forestry, in protecting, propagating and preserving our rich, varied and magnificent forest trees, to enrich and bless mankind.

C. H. STREET & Co.—Section of Redwood with bark attached, the bark 25 inches thick.

This remarkable specimen was obtained in Fresno County.

MRS. C. L. TAYLOR.—[See Class 33.]

CALIFORNIA ONYX COMPANY.—Onyx.

The line has still to be drawn which limits the resources of California, and almost daily some new discovery is made which adds to the fame of the Golden State. The exhibit of onyx made this year is very remarkable in showing the quality, variety of color and size of blocks of onyx which can be produced from quarries in this State. The property of the California Onyx Company is in Colusa County, in the Coast Range, on the dividing line between Colusa and Lake, at the head of Sulphur Creek, and was discovered in 1886,

by Jas. W. Burlington, Esq., of San Francisco. Since that time it has been opened very largely. Since its discovery it has been sold by the pound in many cities in the East, where its peculiar beauty, wonderful colors and susceptibility to the highest polish have found for it a ready market. Among the handsome specimens shown at the Fair were two large slabs for mantels, a number of richly-colored table-tops and fancy pedestals and a show-case full of small ornaments worked up in fanciful designs. A large sample of the uncut and unpolished stone on exhibition offers a sharp contrast in its gray, shapeless, natural condition to the rich colors and handsome figures of the finished product. The stone is a very hard and transparent agate onyx. Owing to the kaleidoscopic arrangement of the colors it is impossible to duplicate any specimen. Experts who have examined the product of this mine pronounce it far superior to that of any other mine in the United States or Mexico in quality, variety of color and size of blocks quarried. Instead of being of the white, green and yellow color of Mexican onyx, this abounds in deep, dark tints which make it especially adapted for ring-sets, seals and other jewelry.

The discovery of this rare ledge of onyx opens up a new field for enterprise in California, and adds another wonder to the many that mark this State as peculiarly rich in works of nature.

I. H. THOMAS.—[See Classes 17 and 42.]

WAINWRIGHT & EASTON.—Display of Coal.

MRS. L. J. WATKINS made quite an interesting exhibit of Ornamental Terra Cotta goods, manufactured at San José.

MRS. KITTIE WELLS exhibited a piece of very hard fine-grained cut granite from Kern County.

WHYTE & DE ROME.—[See Class 9.]

MRS. WOLFF.—Ornamental Fruit Cones from Santa Clara County.

R. H. WRIGHT.—Petrified Wood and Fossils, from Contra Costa County.

CLASS 30.

Groceries, Dried and Smoked Meats and Fish, Confectionery, etc.

ARMOUR & Co. (Chicago)—Canned Meats. [See the J. T. Cutting Company.]

BARRETT & ELLIOTT.*—Canned Meats; preserved by a new process not heretofore used in California, consisting of almost everything under the name of meat. It was carefully examined by the Committee and received the award offered by the Institute for the best article of the kind, of California manufacture.

CALIFORNIA CONSOLIDATED FOOD COMPANY.*—Consolidated Food.

This most important enterprise and manufactory is deserving of special mention. The manager, Mr. E. M. Cookesly, makes the following statement of their merits: "The Consolidated Foods manufactured by this company are the result of long experience and careful study; some of them were introduced into England a short time ago, and were so highly approved of that, after analysis by the ablest scientific authorities, they were adopted by the British Government as the standard portable ration for the field. Large quantities were issued to the troops in the campaigns in Egypt, India, and South Africa, where they were highly appreciated by all ranks.

"All the articles of this manufacture are composed only of the very best and purest materials. They contain in proper proportion all the ingredients necessary to sustain healthy life, and are exceedingly rich in bone and flesh-forming and heat-giving constituents.

"The soups are contained in a tin cylinder, weighing about two-and-a-half ounces, open at both ends, and are so consolidated that the action of the atmosphere cannot affect them. They will consequently keep good for an indefinite time, and when required for use can be pushed out of the cylinder, mixed with water, boiled for a few minutes, and they are ready for the table.

"The quickness with which they are prepared and the delicacy of their flavor recommend them especially to the housewife and invalid. With an assortment of these in the house one need never be taken by surprise, for with little or no trouble and with merely the aid of a spirit lamp or gas jet, a bowl of delicious soup can be made in ten minutes.

"Their cheapness brings them within the reach of all, and they are free from the disagreeable and unmistakable flavor of the ordinary canned soups.

"Their portability and keeping qualities render them pre-eminently valuable to stockmen, miners, prospectors, surveyors and travelers in general where transport is difficult and vegetables and other provisions scarce. They contain salt, pepper and all necessary flavoring, and fire and water is all that is required to make them fit for immediate use.

"An analysis of these soups made by the most capable chemists of the day says that the pea soup contains no less than 23.08 per cent. of fatty matter, 40.76 of starch, gum and pectin, and 21.01 of albuminous and nitrogenous matter."

CASTLE BROS.*—Display of Teas.

This exhibit of Teas exclusively was an attraction, and during the evening always surrounded by visitors anxious to see or partake of a cup of the fragrant herb tendered to all who desired it. The display of packages attractively arranged were prepared by the labor of white boys and girls, who have superseded the Chinese heretofore employed. A large number find steady employment at the establishment, corner of Davis and Sacramento streets, at labeling, packing and casing the various brands for distribution throughout the United States, British Columbia and Mexico, or wherever the vast trade of this firm, of nearly forty years' standing, has penetrated. They import and pack teas for many of the heaviest dealers east and west of the Rocky Moun-

tains. What the firm claimed and the public universally conceded was that they had original and useful-style canisters, bright, novel and varied designs in labels, and surpassing excellence in higher grades of teas, as evidenced by the display under glass and distribution by cup.

CENTRAL MILLING COMPANY.—Flour in the displays of both Santa Clara and San Benito Counties.

ROBERT CRANE, of Santa Rosa, made a small display of Ham and Bacon.

THE JOHN T. CUTTING COMPANY exhibited the following goods, of which they are the agents:

Armour & Co., Chicago, Canned Meats and Glues; Price Baking Powder Co.'s Baking Powder and Flavoring Extracts; James Pyle & Sons' Pearline; Sperry's "Germea" for Breakfast, and the "Highland" Brand of Condensed Milk; all of the best quality and world-wide reputation.

The "Condensed Milk" was analyzed by Prof. E. W. Hilgard, of the State University, which gave the solid contents to be as follows:

Butter Fat.....	10.61
Casein.....	10.53
Milk Sugar....	14.00
Ash.....	1.96
	<hr/>
	37.10

Mr. Hilgard further says:

"This is a fair formula for the composition of natural cow's milk. Special tests showed the absence of any antiseptics, such as Boracic Acid, Salicylic Acid, etc. Cane sugar is also absent.

"When diluted with water to the proper degree, the taste of the article is simply that of fresh milk after boiling, without any foreign flavor. I consider it an excellent article for culinary as well as dietetic purposes, as a substitute for fresh boiled milk."

The goods were handsomely displayed and attracted marked attention. Polite attendants were ready at all times to answer questions and dispense samples of the various articles to inquiring visitors.

CUTTING PACKING COMPANY.—Fresh Salmon, in the Humboldt County Display.

A. DAMONTE, of San José, made a remarkably fine display of Glacé and Crystallized Fruit, Italian Nougat and other Confections.

The flavor, quality and appearance of the fruit put up by Mr. Damonte is not excelled by any, even the best imported. Learning the business in the most noted factories in France, he has the best recipes and processes known in Europe, which, with the full-flavored fruits so abundant here, and a carefulness of detail in the various stages of preserving, he has made a reputation and demand for his articles from the wealthy and all first-class dealers.

GEO. A. FISHER had on exhibition Starch, Baking Powder, Soy, etc. A large space on the main floor was occupied by this enterprising exhibitor in the display of Standard Articles, for which Mr. Fisher is the Agent. The goods were in clean bright packages, and attractively arranged.

GETZ BROS. & Co.—Display of A. & C. Hams.

The exhibitors say: "These hams are taken from perfectly healthy and carefully-selected corn-fed hogs, slaughtered in the East. The hams are cut and trimmed to a peculiar shape and then placed in a specially prepared sweet pickle, and brought to this State by Messrs. Andrews & Coykendall, of San José, and there are otherwise specially cured and smoked by a process peculiar to this firm, after which they are carefully inspected before sending to the market.

"We claim that these hams are the most delicately cured offered for sale on this Coast, and to have an especially fine, mild, sweet flavor. Every ham is guaranteed to be as represented." The brand A. & C. is their trade mark.

KNOWLES & SON, of Stanislaus County, made a display of fine Flour.

LA FAVRE PACKING COMPANY.—Saratoga Chips, Olive Oil, Fruit Jellies, Plum Pudding, Sauce, etc.

The Saratoga Chips and Plum Pudding are a new manufacture in this city, and are meeting with immense sale, the latter being shipped in large quantities to the Eastern States and even to Europe. The Company say: "It is absolutely a home product, thereby guaranteeing a better and more delicious article than could possibly be imported. Neither will we give you an imported tin, but a first-class domestic bag; in other words, an old-fashioned Bag Plum Pudding put up in handsome and convenient form, which we not only guarantee to keep for an indefinite period, but, like old wine, to improve with age. The sauce is not only a sauce for La Favre's Plum Pudding but a delicious and convenient sauce for all kinds of puddings, cakes, etc. It is in solidified form, but perfectly soluble, and keeps and improves with age.

F. LARROCHE & SON.—Canned Meats, consisting of Pressed Corned Beef, Calves' Heads, Calves' Feet, Calves' Tongues, Beef à la Mode, Ox Tails, Lambs' Tongues, Beef Spanish, Tripe.

This product is intended principally for ships' supplies and shipment to mining districts.

PACIFIC BAKING COMPANY.—Snow-flake Bread.

This is made by a new process and claimed to be the purest, cheapest and best bread in the market. A large amount was given away as samples.

W. A. PETTIJOHN.—Breakfast Gem.

This exhibitor had a well-arranged display of his well-known Breakfast Gem. The article has been before the public of the city so long that praise is unnecessary. It is a pure and wholesome food, manufactured in a cleanly way from pure Sonora white wheat, which has been subjected to a cleansing process before being used. The Breakfast Gem, as its name implies, is primarily intended for use at the morning meal, and as such is superior to cracked wheat, oatmeal or other breakfast food. In addition to this, it is largely used as an ingredient for cakes and puddings, and with the addition of raisins, currants or other fruit makes a delicious addition to any meal. Sample packets were distributed gratuitously to visitors so that the public might test its merits.

L. P. RIXFORD displayed in the Sonoma Exhibit some samples of Jujube and Pistachio. A delicious condiment, intended for all lovers of sweet things.

L. G. SRESOVICH & Co. made a large display of dessicated Cocoa-nut, styled the "Pioneer Brand;" also the natural fruit. It was put up in neat packages, and many samples were given away. This has become an important article of manufacture, and almost indispensable in the household for pastry of various kinds. It is very wholesome, palatable, warranted for purity, freshness and general excellence, and meets with a ready sale.

THAIN BROS. had the privilege of selling candy, much of which was manufactured in the Pavilion. The process was interesting, and, we believe, added materially to the receipts. They have a large factory on Market street and supply much of the retail trade.

VICTOR MILLS made a large display of Flour in the exhibit of San Benito County.

CLASS 31.

Wines and Brandies of California Production, from California Vineyards.

A. BARTOLO.—Samples of Wines from Contra Costa County.

BUCKNER BROS.—Wines from Sonoma County.

BELLEVUE VINEYARD.—Three varieties of Wine from Sebastopol, Sonoma County.

J. A. BELOLLI.—Samples of Wine from Santa Clara County.

M. K. CADY.—Assorted Wines and Brandies and Cooperage, from Agua Caliente, Sonoma County.

P. J. CASSIN & Co.—Display of Orange Champagne.

H. W. CRABB.—Several cases of assorted Wines and Brandies from his vineyard at Oakville, Napa County.

ISAAC DE TURK.—A large and fine display of assorted samples of Wines and Brandies from Sonoma County.

Mr. De Turk's Wine Product is so identified with the great viticultural interests of California, and particularly with that of Sonoma County, that an extended notice here would be considered redundant.

BERNARD DISTEL.—Assortment of Wines and Brandies from the Robleda Vineyard, Mountain View, Santa Clara County.

Mr. Distel is a skilled viticulturist and distiller, having acquired his knowledge in the best wine districts of France. His products have an enviable reputation and his customers are among the connoisseurs in the State. He also

sends considerable quantities to Europe, where its quality is becoming known. Mr. Distel exhibited some excellent distillations from cherries and prunes, which good judges have pronounced equal to the best ever imported here. His vines bear the choicest of wine-grapes, and they will doubtless make a great reputation for him in the near future.

P. FOREST.—Samples of Wine from Stanislaus County.

J. GAMBS.—Wines from Contra Costa County.

I. GUNDLACH & Co.—Assorted samples of Wines and Brandies from the celebrated Rheinfarm in Sonoma County. The name and products of this firm are well known throughout the United States and Europe.

ARPAD HARASZTHY & Co. made a large display of California Wines and Brandies, attractively arranged in a space near the main entrance.

The most noted part of the exhibit was their "Eclipse Champagne," which can now be found in almost every part of the world. Its fame and sale is phenomenal, the demand being far in excess of their vast resources and facilities, which are taxed to the utmost. Probably no man in California has had the experience or possesses the practical knowledge of the manufacture of Sparkling Champagne equal to Col. Arpad Haraszthy, who has visited and is familiar with all the great wine-cellars of Europe. He commenced the bottling of wines in this State in 1868.

J. HOOK.—Wines from Contra Costa County.

GEO. F. HOOPER.—Sonoma County Wines and Brandies. [See Classes 28 and 42.]

THE G. M. JARVIS COMPANY.—Wines and Brandies.

The G. M. Jarvis Company have been identified as growers, wine-makers and distillers in Santa Cruz and Santa Clara counties for twenty-five years. Their exhibit on the main floor of the Pavilion had a tasteful and inviting appearance. The famous Jarvis Brandies were arranged on pyramidal stands, their well-known labels alternating with those of the hardly less well-known Jarvis Port Wines, Sherries, Burgundies and Zinfandels. Of special mention is the Peach Brandy and Orange Wine. Eminent analytical chemists and physicians pronounce the Jarvis wines and brandies not only strictly pure but possessed of all those essential qualities which are so much admired by leading wine chemists. Their merits have been recognized at the State and District fairs of California and the World's Fair at New Orleans.

LORENSON & PETERSON.—[See Class 32.]

J. C. MERITHEW.—California Wines and Brandies from Contra Costa County.

EMILE MOLLER, from Healdsburg, exhibited three varieties of Wine.

WM. PALMTAG, of San Benito County, made a very fine exhibit of superior Wines and Brandies from that locality.

PAUL O. BURNS WINE COMPANY, San José.—General Display of Wines and Brandies in the Santa Clara County Exhibit.

This well-known and extensive Company's exhibit was a prominent feature, and comprised a general assortment of the noted wines and brandies they produce.

SHELL & Co. exhibited assorted Wines and Brandies in the Stanislaus County Display.

E. B. SMITH.—Wines and Brandies in Contra Costa County exhibit.

CLASS 32.

Fermented Products, Ale, Beer and Spirits.

J. H. BURNELL.—Albion Ale and Porter.

Albion Ale and Porter are both home productions, and, according to the best judges, fully to equal the best imported. There is no reason why they should not. There is a large capital employed; the men engaged at the works are experts in their business, having learned it under the best foreign experience. The material used is also the very best, and the plant fills like conditions. Add to this that the vaults at Hunter's Point, where storage is found, are certainly unequalled. They are 600 feet long, cut in the solid rock, and through them a stream of cold water flows the year round. There is thus a union of all essentials, and every reason, therefore, why the Albion Ale and Porter should be the equal, to say the least, of any brought here.

LORENSEN & PETERSON had on exhibition some Beer and Porter from Stanislaus County.

NATIONAL BREWING COMPANY.—Display of Draught and Export Lager Beer.

The product of this Brewing Company is of standard excellence, and occupied a prominent position on the main floor of the right of the entrance, arranged in the form of a Turkish kiosk, the walls of which were composed of the product of the brewery in bottles. The structure was festooned with hop vines and surmounted by an American eagle, holding streamers of the national colors in its beak. It was illuminated by incandescent electric lights, the rays of which gleamed through the amber-filled bottles composing its walls. The interior was handsomely fitted up for the entertainment of visitors. Its reputation is deservedly high, its merit consisting in its being a pure and wholesome Lager Beer. It is manufactured, according to the most approved methods, in the city of San Francisco; and as a local enterprise, producing a first-class article, deserves every commendation. This Company has lately taken measures to double its present facilities and capacity, and promises and advertises that it will in future bring into the market beer of equal age and quality, as heretofore. Last year it received the gold medal for superior excellence, and no doubt this year would have obtained the highest award had premiums been given.

WILMERDING & Co. had a display of the celebrated Peruvian Bitters in a booth on the main floor, opposite the San Benito Exhibit. It was tastefully arranged and the medicinal properties of the Bitters were tested by many.

CLASS 33.**Printing, Bookbinding, Stationery, etc.**

C. H. BOGART.—Collection of Postage Stamps, embracing almost every nationality.

BRUNT & Co.—Samples of Printing.

In a handsome gilt and plush case, Messrs. Brunt & Co. exhibited designs of silk badges trimmed with gold braid and fringe, and printed in gold-leaf and colored inks. Also an assortment of cards with emblems of leading fraternal societies illuminated and embossed thereon; samples of wedding work, party invitations and programmes, menus, etc., and specimens of fine printing and embossing in gold and colors. A handsome exhibit, and unique of its kind in the Exposition.

Jos. A. HECHT.—A pamphlet containing his system of improved long-hand for general use.

This is a new departure in short-hand writing, and the inventor says it consists only of an alphabet of one letter for each sound of the language and is as mechanical as common long-hand, while it is five times more rapid. It may be abbreviated like common writing, and is then more rapid than any short-hand system in existence and far more easily read. Unfortunately, Mr. Hecht has never learned his own system sufficient to demonstrate its great advantages, and therefore no practical test was given.

NICHOL'S MANIFOLD COPYING PAPER COMPANY.—Patent Copying Paper, Ink, etc.

This paper is specially designed to meet the wants of every business where a clean, handy and convenient method of copying is required and the quantity needed too limited to make printing necessary. By this process a transfer from books can be made, or a copy can be transferred to a letter-book and still furnish as many reproductions as may be needed.

POWERS BROS. exhibited Watson's Reading, Language and Number Frame, and the Chatauque Combination Drawing Board and Writing Desk.

Both these school appliances are approved and highly recommended by educators, and are meeting with an extensive sale.

MRS. C. L. TAYLOR kindly placed on exhibition an exceedingly interesting souvenir of the early days of the Institute. It was a copy of the first *Mechanics' Fair Daily*, printed on silk, dated September, 1857. Those only who attended that first Exhibition of the Mechanics' Institute and the present can fully appreciate the wonderful changes in our resources since that time. Then the great natural wealth of our State was but little known, the great tide of imports brought us the articles that to-day go forth as exports to all lands of the earth. Truly, this State by the Western Sea is a great land, and a Son of the Golden West has a birthright known to no other nation.

CLASS 34.

Gold and Silver Plated Ware, Watches, Clocks, Jewelry and Bronzes.

Notwithstanding this city is noted for her exquisite designs and manufactures in jewelry and wares of the precious metals, but little was shown at the Exposition, much to the disappointment of many visitors, who expect to see at these Fairs all that is new and beautiful in science and art work.

S. SONNENFELD exhibited a case of Cut-stone Jewelry, consisting of Opals, Quartz, Garnets, California Diamonds, cut and uncut—the whole making a fine display of lapidary work.

CLASS 35.

Scientific Apparatus and Appliances.

AUTO-PNEUMATIC CAR MOTOR COMPANY.—Model, in operation, of car propelled by Pneumatic Power.

This interesting exhibit consisted of a handsome working model of a car, propelled on a circular track by means of compressed air conveyed along the track between the rails in an air-tight pneumatic tube. At regular intervals on the track ball-socket valves are placed on the tube, automatically connecting with the car as it passes along and almost instantaneously charging its air receiver or chamber with a sufficient pressure of air to run the engine and car to the next similar valve. It can be said that the model worked to perfection.

The air was obtained from a small air-condenser connected with the pneumatic tube. There was never any necessity for the motor stopping to charge the air chamber, the automatic valves operating instantly, enabling the car to keep constantly in motion, apparently with the power to go on forever, or until the car is worn out through constant use.

The inventors estimate that a working car will start with a pressure of 75 pounds per square inch, which can be readily regulated and reduced to any less pressure on the cylinders that may be desired. It is claimed that this pressure will be sufficient to drive a loaded street car for half a mile; it is, however, intended to place the automatic valves at distances of about 500 feet, so that the motor will be very frequently charged with the same pressure of air that is maintained at the point where the power is generated. There is, practically, no limit to the distance that compressed air (and therein and thereby, power) can be conveyed; and in the perpetually recurring and auto-

matic charging of the motors, the inventors of this system seem to have solved a great problem. Its advantages will be safety and cleanliness. There will be no smoke, nor heat, nor damage to passengers from explosions. The tubes along the track can also be used to transmit power to manufactories and other establishments to any desired extent and amount, and can also supply air for cooling and ventilating purposes.

DR. J. A. BAUER.—Sun-dials.

This gentleman has taken great interest in the production of perfect sun-dials. Those displayed at the Fair this year were made of indestructible materials, mathematically correct and computed for the various localities of the State. They are a very appropriate and useful ornament for a lawn, park or public place. The earliest of all sun-dials was constructed by the Chaldean astronomer, Berosus, about 340 years B. C. Cicero speaks of sun-dials at his villa near Tusculum. They were found at Pompeii. The German traveler, G. H. Martini, found a sun-dial at Memphis, Egypt. The Greeks constructed dials of suspension, intended for travelers. The Arab, Abdul-Hassan, who lived in the 12th century, taught how to trace dials on cylindrical, conical and other surfaces. Clock-time is called *mean* time; that marked by the sun-dial is called *apparent* time, and the difference between them is the *equation* of time. It is given in most calendars and almanacs, frequently under the headings "clock slow" and "clock fast." When the time of the sun-dial is known, the equation of time will at once enable us to obtain the corresponding clock time, or *vice versa*. The chief, and, in fact, the only practical difficulty of dialling will be the accurate fixing of the style or gnomon, for on its accuracy the value of the instrument depends. It must be in the meridian plane, and make an angle with the horizon equal to the latitude of the place; consequently, the nearer you build a sun-dial to the equator the lower will be the gnomon. The dial must be perfectly horizontal and the gnomon due north and south. Here in San Francisco where the watches are set according to Railroad or Sacramento Time, the sun-dial will be consequently ten minutes late, or, better, the watches ten minutes fast.

L. C. BYCE had on exhibition the celebrated Petaluma Incubator, which is meeting with much favor and large sales. The percentage of eggs hatched by this Incubator is equal to if not greater than any other, while its simple yet perfect mechanical arrangement for keeping the heat at the proper degree commends it to those about purchasing.

W. H. CAMPBELL.—MacGeorge's Clinograph or Borehole Test.

An invention by Mr. E. MacGeorge, of Melbourne, Australia. The instrument is used as an attachment to the Diamond Drill to measure exactly the position of the borehole from which the cone or sample of strata is taken.

This very ingenious and useful instrument has just been introduced on this Coast by Mr. Campbell. It is claimed that its use will detect the slightest deflection from a straight line of the Diamond Drill, so extensively used in our mining districts—a very important matter where deep holes are bored and tunnels run to meet the same.

STANLEY FORBES.—A lately-surveyed and newly-published map of Humboldt County.

CAPT. CHARLES GOODALL.—Mariners' Automatic Registering Compass.

This is the invention of Mr. Chas. O. Farciot of San Francisco, Cal., and a most ingenious and meritorious invention, which seems destined to occupy an important place in the necessary outfit of all sea-going vessels and to contribute largely to the saving of both life and property. The want of such an invention has been long felt. This is the only instrument that correctly registers the course of a ship and which can be relied upon for dead reckoning. The Committee of Awards unanimously decided to bestow the Inventors' Medal on this exhibit as the "best recent Pacific Coast invention" on exhibition.

The instrument consists of a magnetic needle mounted upon an annular float which rests on a liquid, the receptacle for the float being so constructed that the instrument can be turned upside down without spilling the liquid. Also a needle pivot-post with a double spring clock, constructed for the purpose, and the necessary mechanism and machinery for passing a strip of paper through the machine and under the needle, and upon which is registered the course of the vessel at intervals of one minute. The needle is held in place and mounted upon a pivot which is raised and lowered one a minute. About the center of the needle are depending four markers placed in a circle of one and one-fourth inches and also on the four points of the compass. Each marker has a character which represents one of the four points of the compass. Under these markers there is placed a strip of paper, one inch wide, long enough to register the course (if a steamer) for three thousand miles, if required. This paper has upon it eight parallel lines representing eight points of the compass and has cross lines one inch apart which represent ten minutes in time. The machine moves the paper just one-tenth of an inch per minute. The center parallel line represents true north, south, east and west. The lines to the left of the center line, if the course being run is north, represent northwest courses; those to the right represent northeast courses. If the ship is running easterly the centre line represents true east; if southerly, it represents south; and if westerly, it represents west; and the right and left parallel lines the variations. This paper is fed through the machine by the movement of the clock and over a central table and under an ink ribbon and below the markers. When in operation one of the markers comes in contact with the ink ribbon every minute by being raised and allowed to fall upon it; if the course of the ship is northerly the marker at the positive end of the needle and which represents all northerly courses, leaves its imprint upon the paper. If the ship is on a southerly course the marker which represents south leaves its imprint, and so on with all the points of the compass. The paper is fed from a reel on one side of the machine and is received upon a reel on the opposite side. The only attention that is required is to keep the clock wound, and once in twenty-four hours to move slightly the ink ribbon. The instrument is suspended upon a ginglymus, adjusted in line with the keel of the ship, and occupies but little more room than the ordinary

mariners' compass. The feeding of the paper can be started when the ship leaves port and stopped when the port of destination is reached. The characters are easily read and understood. The master can tell the exact courses that his ship has traveled and the exact time that she has been on each course; and if he knows about the speed of the ship he can tell how many miles he has traveled on each course; hence he can tell where he is and where he has been. When the master retires from his post and gives orders as to course and time, when he returns he can see whether his orders have been obeyed without taking anybody's word for it. The instrument can be placed in the captain's room or elsewhere for safety or convenience.

L. L. LENTIL.—Recent map of the city of Eureka, Humboldt County.

A. W. H. MACEWEN made a most interesting and instructive display of Decimal Weights and Measures. The metrical system was fully illustrated by a full set of weights and measures, also lengths, all of official standard. Such an exhibit of the metric system gives a better idea of its simplicity and merit than a volume of text.

THE COLBY PACIFIC TESTING COMPANY had on exhibition at one end of the Pavilion one of their testing machines that indicates almost everything about a person except the age, which may yet be added. It gives the weight, height, lifting power and lung capacity, all for a nickel. Of the many devices for extracting coin from the pockets of inquiring minds this seems to be the most successful of any yet favoring the Pacific Coast with a visit. The young man with his best girl was a good patron, and expended an incredible amount of muscle and wind to convince her that his strength and manly chest was up to the standard.

F. L. Woods had on exhibition one of Draper's Registering Thermometers. The indicator card is circular in form and divided by lines radiating from the center into divisions representing days. These are again divided into spaces representing hours. Concentric circles equi-distant from the centers are also marked on the card, which represent degrees. The card is revolved by clock-work in regular clock-time, and a stylus moving up or down by the temperature touches the card and makes a continuous mark—thus exactly recording, night and day, the variations shown by the thermometer. The cards may be taken off and preserved for record.

CLASS 36.

Illuminants and Accessories, including Electricity and Electrical Apparatus.

[Illuminants other than electric light will be found in Class 15.]

BRAUN & KINNEY.—Electric Light and Motor Switch.

It is claimed for this invention that it possesses many great advantages, being always positive in action and not liable to get out of order.

CALIFORNIA ELECTRIC LIGHT COMPANY.—Electric Light Dynamos and Motor.

The exhibit of the California Electric Light Company was one of the most interesting in the Fair. The large number of Electric Lights, both arc and incandescent, as well as motors, distributed throughout the building would call for more than passing notice; but the novelty of their exhibit in the main floor of the building was unsurpassed. It was built in the shape of an East Indian Pagoda, in which was placed a Brush Electric Motor and a Brush Incandescent Electric Light Machine, the armatures of both being connected by a highly-polished coupling, appearing to be one machine. This exhibit was surrounded nightly by crowds of people, all speculating as to where the power came from to drive the machine. There were no pulleys, belting or other evidences of power being transmitted to the apparatus. A careful examination, however, would have revealed the wires leading under the floor from the dynamo machine in the machinery department, from which the current or power was transmitted to the motor, which, being coupled to the dynamo, produced the incandescent electric lights in and around the Pagoda.

Their exhibit in the Machinery Department was no less interesting. On the fly-wheel of the engine which drove the dynamo engine were connected, by an ingenious device, a number of incandescent lights, red, white and blue, which, when revolving at a speed of 200 revolutions per minute, produced an effect that was at once striking and beautiful. In this department also were shown arc lights, electric motors and incandescent lights, being operated from the same wire.

ELECTRICAL SUPPLY COMPANY.—Display of Electrical Apparatus.

This Company made a display worthy of special notice, particularly as the chief features of their exhibit were produced in their factory in this city, and evidenced superior electrical talent and manufacturing ability. They exhibited in operation a "Wimshurst Influence Electric Machine," which is claimed to be the largest and most efficient machine of its kind ever made in California. Its performance is certainly remarkable, and it attracted crowds of spectators. An Inductorium, or "Ruhmkorff Coil," of their own manufacture was also in operation, showing the effect of Static Electricity passing through rarified air and gases, producing very beautiful and striking effects. We also wish to notice a Fire Alarm Telegraph Recorder, a Physician's Cabinet Battery

of very beautiful design and complete in every particular, and portable, and Medical Batteries, all made in their factory. They also showed, in operation, Electric Bells, lighting and extinguishing gas by electricity, Electric Watchmen's Register, and, besides, two large show cases filled with electrical goods of every variety.

N. S. KEITH.—Electric Dynamos and Motors.

The transmission of power by means of electricity was well shown by Prof. Keith's dynamos in Machinery Hall, generating electricity which was conveyed by wires to several of his electric motors in various parts of the building, driving various pieces of machinery. One of these motors drove the press which printed *The Fair Daily* continuously during the Exhibition, with great satisfaction. Another motor ran the quartz mill in the machinery department. This system attracts much attention because of its applicability, not only to the distribution of power in cities, as is now extensively done by Prof. Keith, but to the use of water power electrically transmitted to run mines and mills in most convenient localities, often many miles from the water power.

A. F. MARTEL.—Electric Batteries, Hand-Grip Machine and Railway Automatic Signals.

The grip machine was to show the power of the muscles in the hand, the electrical part being used to make it operative only when a nickel was dropped in the slot. The Automatic Electric and Mechanical Railway Safety Signal, (shown by a model) is claimed to be a protection to trains against accidents under the most dangerous circumstances. It is said to be the only signal in existence that gives instant warning to the nearest station agent and to the engineer of an approaching train of any danger (or accident) that may happen on the road; it will also prevent trains from running into an open draw-bridge or switch or any other place of danger.

WELSBACH INCANDESCENT GAS LIGHT COMPANY.—[See Class 15.]

CLASS 37.

Surgical and Dental Instruments, Medical Appliances, etc.

DR. A. S. HUDSON.—Artificial Leg.

The advantages claimed for this leg were extreme lightness, strength and perfect action of the joints—so close in resemblance, that it would be hard to tell, when properly adjusted, the artificial from the natural.

DR. G. W. LEEK.—Display of Tools, Dental Appliances and Specimens of Dentistry.

This exhibit was a very complete display of almost everything connected with dentistry. The specimens of gold-plate work and filling were particularly noticable.

CLASS 38.

Embroidery, Needle-work, Hair-work, Shell-work, etc.

MISS JETTIE ATTEL displayed a fancy Hat Crown and Band, nicely embroidered.

MARY BACKESS showed a Quilt of original design.

MISS E. F. BALL had a Crazy Quilt, beautifully arranged to produce harmony of color.

MISS CLARA BARMAN.—Plush Lambrequin, skillfully embroidered.

MRS. H. N. BISSETT.—Silk Quilt, beautifully made and lined.

MRS. GEORGE BOLSTER.—Embroidered Bead Work of intricate pattern, only done by patient work.

MISS ETTA BRAY.—String of Buttons, each one of different pattern.

MRS. E. S. BROWN.—Crazy Quilt of original design, entitled "Queen Eleanor."

MRS. M. BROWN made a display of Paper Flowers, closely imitating those of Nature.

MRS. J. B. CALDWELL had quite a display of Fancy Needle-work in the Stanislaus Display.

MRS. C. CARNER, of Stanislaus County, had Fancy Needle-work.

MRS. W. E. CHESLEY made a remarkably fine display of Spanish Drawn Work.

MISS JENNIE E. CLARK exhibited Paper Flowers and Lace Tie; also a Painted Cup and Saucer.

MRS. A. CLASSEN presented a Rug and Four Cushions, all prettily made.

MRS. WM. COMBS, of Half-Moon Bay, made a very interesting exhibit of Sea Mosses (natural,) and made into a variety of interesting objects; also, Abalone and other shells, and a beautiful picture in frame made of sea moss, most artistically arranged. All these beautiful objects from the sea were gathered and arranged by her own hands; They were much admired by visitors.

MRS. C. F. CROUSE showed a Crazy Quilt, of the pattern called "The Wanderer."

ANNIE CULLIGAN had a Table-Scarf, showing much patient labor.

MRS. T. DOYLE showed a Laurel Leaf Quilt, the design being very prettily delineated.

MRS. J. DRURY exhibited a Table-Scarf of original design.

MRS. L. ERZGRABER made a very handsome display of Embroidery.

THE HOME FOR FEEBLE-MINDED CHILDREN, at Santa Clara, made quite an extensive and interesting display of School Work and industrial training by the

inmates of that Institute, now under State control. Many of the samples were highly creditable and would favorably compete with that of other institutes where the mental faculties are normal. The officers in charge have reason to feel gratified at the success of this, the first exhibit of the work of the inmates.

ELLA FITZPATRICK, another String of Buttons, incredible in number and all different.

MISS LAURA FOX.—Lace Handkerchief and four Collars, exquisitely embroidered.

L. E. GAUBATZ.—Fancy Table Cover and Tidies, all hand-work and of pretty design.

A. E. GORDON.—Paper Fruit and Embroidery in a number of forms, and well executed.

GOSCH & ZIBELIN had a display of Artificial Flowers resembling nature in shape and coloring.

MRS. A. B. GRAHAM made a very pretty exhibit of Decorative Needle-work.

MRS. L. C. GRAUPNER—Crazy Quilt, called "Peaceful Sleep."

MRS. EMMA GRIFFITH displayed a Crochet Bed-Spread, of intricate pattern.

MRS. J. W. HANSON had a Hand-crochet Bed-Spread, beautifully worked and handsomely lined.

MRS. KATIE HASKINS had a Crazy Quilt of new design, "Moonlit Waves."

MISS LILLIE HESSLER.—Crochet Yokes and Laces. These were fine specimens of needlework.

HORTENSE HIRSCH.—String of Buttons, great in number and no two alike.

MRS. LELAND HOWE.—Fancy Corn-Husk Baskets; very pretty and a novelty.

MISS NELLIE HUGHES had a good old-fashioned Calico Quilt.

MRS. M. E. KERVIN.—Piece of Drapery, nicely embroidered with silk.

MISS SARAH KEYES, of Healdsburg, exhibited a very neat Lace Apron.

MRS. SARAH KEYES, of Healdsburg, had a very beautiful Rebecca Degree Apron of original design.

MRS. A. KITTLER exhibited a Crochet Spread and Shams; her own handiwork.

MRS. E. G. MADDEN (75 years old.)—Stand and Chair Tidies; neat and durable.

TILLIE MAHON exhibited a large Tapestry Picture, "Washington Crossing the Delaware."

MISS LILLIE MALONEY.—Specimens of Crochet Work. Miss Lillie is only nine years old, but her work is remarkable for one so young.

MISS EVA MARCUS exhibited a Tidy and Lace, hand made and carefully done.

MRS. D. McMILLAN had a good, serviceable, hand-made Hearth Rug in the Humboldt Display.

McNICHOL & ASHIM made an attractive display of Arrasene, Chenille and Silk Embroidery, nicely arranged in a large cone. Last year they received a Grand Silver Medal for their beautiful work; and had premiums been given this year no doubt would again have received an award, as their exhibit was even more elegant than before.

MISS AMELIA OCHS had a Hand-Painted Piano Cover and Felt Tidy, both showing careful study and skillful handiwork.

MRS. MARY OELLERICH.—A pair of Knitted Curtains, almost as fine as lace and much more durable.

LILLIE PAYNE exhibited an Infant's Skirt most beautifully stitched and embroidered.

MISS MOLLIE E. PIERCE displayed some Needle-Etching that showed remarkable artistic skill and finish.

MRS. C. RAPP.—Knitted Bed-Spread, full size and of fine material.

MISS R. ROSENTHAL had Crochet Lace Work for various uses, all finely done, and of intricate figures.

SHERMAN, CLAY & Co. made a display of imported Piano Covers and Scarfs.

MRS. A. SIMON.—Afghan Sofa Cover, hand-worked, the colors beautifully blended.

KATE SLATTERY.—Painted Cushions.

These were very nicely done; the designs being artistic, the colors appropriate, and well put on.

MRS. ANNA J. SMITH had a beautiful Embroidered Quilt that showed patient and praiseworthy work.

MRS. T. H. SMITH showed fine Crochet Work in a Bed Spread, Shams and Tidies.

MRS. W. S. STONE, of Stanislaus County, exhibited some very pretty and useful Turkey Feather Fans.

MRS. C. J. THORNING showed a pair of elaborately-worked Crochet Tidies.

MRS. A. M. TURNER displayed an Infant's Dress and Lady's Apron of fine Crochet Work.

MRS. W. J. TUSKA had a Crazy Quilt and Shams that would be an ornament to any bed.

GEO. N. TYLER.—Shell Wreath Frame, that required in construction much patience and good taste.

MRS. M. WILLIAMS showed a dainty Infant's Robe, embellished with fine needlework.

MRS. WILSON had a Fancy Mat in the Humboldt County Display.

DAISY WILSON was another exhibitor of Buttons, great in variety and number.

MRS. M. WINTERS showed a Lace Quilt of elaborate design and workmanship.

MISS CLARA WORRALL,—Crazy Quilt of Silk and Satin, and named "The Wanderer."

CLASS 39.

Paintings in Oil and Water Colors.

[For list of Exhibitors see Art Gallery Catalogue, pages 61-72.]

Mr. Joseph D. Redding, Mr. Irving M. Scott and Dr. Benjamin Swan were selected by the Board of Trustees and kindly consented to act as a Committee to examine the Works of Art exhibited, adjudge their merit, and recommend the distribution of the money set apart by the management for awards to local artists in the Art Department. They carefully performed that duty, and the following amounts have been paid in accordance with their recommendation:

Amanda Austin, \$2.50; M. Bailey, \$2.50; Geo. H. Burgess, \$2.50; Miss S. E. Bender, \$2.50; Nellie E. Burrell, \$5; E. D. Betts, \$5; Samuel M. Brooks, \$25; Norton Bush, \$2.50; Mrs. M. Cooley, \$5; W. A. Coulter, \$5; C. J. Carlsen, \$5; Emil Carlsen, \$35; Alice B. Chittenden, \$20; Horace Duesbury, \$5; J. Reed Dickenson, \$2.50; Hugo Fisher, \$10; S. M. Farnham, \$2.50; W. B. Gifford, \$10; Frank L. Heath, \$5; H. R. Hopps, \$5; Miss Annie S. Harmon, \$2.50; Thomas Hill, \$30; Stanley Inchbold, \$2.50; Mrs. Wm. Ireland, \$10; Chris Jorgensen, \$7.50; A. Joullin, \$12.50; Helen Whitney Kelley, \$2.50; Oscar Kunath, \$20; William Keith, \$40; M. E. Landen, \$2.50; Marianne Mathieu, \$15; M. J. McDermott, \$5; Clara McChesney, \$7.50; Mira M. Mahoney, \$2.50; C. S. Newell, \$2.50; E. Narjot, \$10; Emily S. Ryder, \$2.50; Henry Raschen, \$5; A. C. Rodriguez, \$5; J. R. Stites, \$10; M. Strauss, \$20; Nellie A. Stearns, \$15; John A. Stanton, \$15; T. E. Vassault, \$250; Alice H. Vincent, \$2.50; Miss E. Williams, \$20; Miss M. H. Whitwell, \$5; Eva Withrow, \$20; Mrs. Percy Weeks, \$2.50; R. D. Yelland, \$35.

It is to be regretted that a committee so qualified to judge and so interested in art and its encouragement on this Coast did not give a more extended report on the merit of the various works presented. The simple award of so much money is not the reward that genius craves or deserves, nor is it the best incentive to progressive art. Judicious praise or kindly censure can never be wrong; the first will incite the mind to further and determined efforts, the last to remedy errors and correct faults.

S. F. NEWS LETTER.—Artotypes.

The "Artistic Home Album," issued by the San Francisco *News Letter*, was a beautiful collection of fifty artotypes representing the handsomest residences in this city. The album is calculated to afford to strangers an excellent idea of the city and its surroundings, as well as the taste and culture of San Franciscans, while, as an addition to the library or drawing-room table of the citizen, it is quite an acquisition.

CLASS 40.

Keramics, Art Glass Works, Statuary and Carving.

W. G. BARTLES exhibited a Wooden Fan and Easel, beautifully carved and finished.

MISS FLORA BELL, of Oakland, made a very interesting and creditable exhibit of Wood-Carving and Painting on China.

A table-top of polished cherry, in what is termed "surface work," was of particular merit, showing the skillful use of tools. Several other articles of beauty and durability for decorative purposes were displayed, showing that ladies may execute wood-carving in the most artistic manner, and in a few lessons be able to beautify their homes with something enduring. Wood-carving is being extensively taught in the East, and is beginning to receive attention here. The china painting showed some new styles, and were all exquisitely done.

ALICE KINGSBURY COOLEY, of Oakland, had a Plaster Cast of Gen. Grant, also of Telula; both pieces were clever specimens of modelling.

S. COSTRI.—Carved Frames, one enclosing an engraving, the other a photograph.

H. FORTRIEDE.—Display of Ivory, Amber and Shell Goods.

Mr. Fortriede is a master workman in his business, and his productions show the highest artistic ability and great mechanical skill.

TAYLOR GOODRICH had a fine display of Interior Decorations on the wall of his elegant booth, consisting of Ancient Armor and Art Castings, in silver, copper, brass, nickel, bronze and iron.

S. & G. GUMP.—Display of Art Work.

As usual, S. & G. Gump put in a display of art works of great beauty. Those who went to the Fair always made a special point of seeing them. They were a leading attraction, judged from the artistic standpoint. This house, by its facilities, are enabled always to make a very fine showing, for it is in correspondence with the leading art centres abroad, and is recognized there as the exponent of art on this Coast. There was not a large display, certainly, but what was exhibited was of rare merit. The works were selected by Mr. S. Gump, a thorough critic in art matters. Among the exhibits were statuettes of artistic workmanship, water-color paintings, photographs, engravings, beautiful parlor ornaments, old armor, elegant and costly vases, bronzes, large mirrors in costly gold frames, mantels of original and artistic designs and fine workmanship, cabinets, clocks and many other articles of beauty and adornment. The whole was contained in a room especially prepared for their exhibit. The firm has a large factory in the upper stories of their extensive ware-rooms on Market street, where a force of fifty persons is constantly employed in manufacturing the articles required for the business.

JOHN MALLON.—Art Glass Work.

The exhibit of Mr. Mallon was exceptionally fine and one of which all Californians should be proud, as it is essentially home manufacture. The exhibit was contained in a small room in the gallery, which was filled with choice specimens of his work, consisting of every variety, from the more subdued religious works to classical and fancy designs. Mr. Mallon's triumphs in all these designs have not been uncertain, but pronounced. In grand religious conceptions he has furnished works for many of our churches that are unsurpassed anywhere. A beautiful specimen in his display was the "Dodge Memorial Window," designed and made for the First Presbyterian Church, San Diego, where it will finally rest, the auditorium and gallery being so arranged that the window may be viewed from any part of the house. The same may be truthfully said of the art glass he has placed in many of our finest mansions. Mr. Mallon employs a large number of the most artistic designers and workmen obtainable, and, in each department—art-staining, embossing, bending and cutting—a careful supervision is kept by the capable and efficient manager, Peter L. Mallon.

MISS C. PHELAN exhibited several pieces of Painted Porcelain, her own work, and very creditable.

MRS. J. F. TERRY, of San Mateo, placed in the Art Gallery a beautiful piece of modelling, entitled "Cupid Asleep." It was the figure of a child, life-size, reclining in a shell. The pose was natural, and the whole work evidenced artistic skill and ability, and received much and merited praise.

RUSSELL WHITNEY exhibited a specimen of Wood Carving which was very creditable for one of his age—seven years.

CLASS 41.

Photography, Engravings, Original Drawings, etc.

THE DEWEY ENGRAVING COMPANY.—Photo-Engraving.

This exhibit comprised "photo-*fac-similes*," or engravings made direct from photographs without drawing, in such a condition as to be used on an ordinary printing press. The different steps of the process were illustrated in the samples shown, the photographic negative of the object of which the engraving was made, the print on zinc plate in lithographic ink, the photograph broken up into stipples, and the plate etched in relief ready to be used in printing on a newspaper or job press. There were also exhibited five frames showing examples of zinc etching, and a frame with samples of wood engraving. The exhibit was on the south side of the gallery, and was the only one there of *fac-simile* pictures.

OSCAR FOSS made a large and attractive display of Photographic Outfits and Material, comprising Cameras and Lenses of the best and most approved

make, Tripods, Chemicals, Dry-Plates, Back-Grounds—in short, everything required by a professional or amateur photographer.

FREESE & TETLOW.—Photographic Views of Humboldt County.

ASA T. HEYDON.—Pen-and-Ink Drawings and Photo-Engraving.

Mr. Heydon was in attendance each day to show and explain his work and the photo-engraving process, which is as follows: From a sketch or photo a pen-drawing is made. The drawing is then photographed on prepared gelatine. Where the black lines are in the drawing becomes hard in the gelatine. The rest of the surface is washed away with warm water, leaving the lines in relief. From the gelatine relief an electro-plate is made which can be put in a press and worked the same as an ordinary woodcut. Mr. Heydon says his process is from 20 to 40 per cent. cheaper than wood engraving, and for landscape and general illustrating purposes is better, and gives a better printing block than other methods of direct photo-engraving.

MRS. C. HOWE made a novel exhibit representing a ship on the ocean with a gorgeous sunrise in the background, all formed of vari-colored ores.

PACIFIC BUSINESS COLLEGE.—Display of Pen-Work.

This comprised some very fine specimens of plain and ornamental penmanship, also various pen-drawings, among which were animals that never existed except in the brain of the pen-wielder.

FRANK PERKINS.—Visigraph.

It is not every one who knows that a Visigraph is a box containing a number of narrow strips of board that will rise above the top when pressed by a lever in some convenient position. On these strips is placed the names of persons or objects that appear at will when the right lever is pressed. The exhibitor and inventor, on account of illness, was unable to give the desired illustrations, but he says the Visigraph is essentially an educational device, and designed as a literary assistant for the American school-room. One of the necessities which the present age has demanded and waited for is a simplified form and method of presenting the work of eminent literary authors when offered in the form of associated characters in dialogical delineation; and, though the Visigraph methods do not claim perfection in that direction, they are evidently the adjunct of progress. It is originally mechanical in construction and operation. one person only being required to render a dialogue of the entire cast of characters by means of adjustable tablets, each one heralding a character. Any teacher who is a passable reader can, with its assistance, entertain and instruct their pupils.

ERNEST ROSSOW had a number of Mechanical Drawings, well-executed and artistically finished.

DR. SHEPPARD, of Santa Rossa, had a *fac-simile* copy of the celebrated Moabite Stone.

This noted relic consists of thirty-four lines of Hebrew-Phoenician characters originally inscribed on black basaltic granite, and records the wars of Mesha, King of Moab, with Omri, King of Israel, and his successors. It is believed the inscription dates from about 920 years B. C., and was discovered

in 1868, at Dhiban, in Moab, in a perfect condition; but during a quarrel among the Arabs, who had it in their possession, they lighted a fire on it and, when hot, threw water upon it, which broke it into three large and several small tablets. The fragments were purchased by the French Government for 32,000 francs and transported to the Louvre in Paris. The thanks of archæologists and scholars are due the Doctor for his kindness in placing a reproduction and translation of so rare a curiosity for inspection by the public.

J. B. SLINN had a stand where visitors, for a small consideration, could have a silhouette of themselves cut with accuracy and dispatch.

T. R. SOUTHERN, the well-known teacher of Penmanship, exhibited a variety of specimens of his handiwork, which few can equal.

The card-writing and shading pen-work were especially fine, as also some engrossed certificates and resolutions for societies, to which he gives particular attention. The whole was artistically arranged and greatly admired.

F. R. STOERMER.—Scenic Back-grounds, and Accessories for Photographers.

These made rather a poor appearance on the wall, as the lines, of necessity, have to be bold and prominent; but when reduced by the camera to the proper size they give a pleasing effect to photographic pictures.

THE FORBES LITHO-MANUFACTURING COMPANY made a display of Albertypes and Lithographic Labels, which were a novelty, and will, no doubt, be in the future generally used.

MRS ADA WILLIAMSON.—Scissors Etchings.

This lady cut with quickness and skill all manner of novelties, including silhouettes.

CLASS 42.

FARM PRODUCTS.—Dried and Preserved Fruits, Grain, Nuts, Vegetables, Honey, Butter, Cheese, Wool, Cotton, etc.

The Board of Trustees, at an early date, prepared an extensive and liberal Premium List (see page 22), which was sent with a suitable circular to all the interior counties, of whom several, at the last moment, were obliged to relinquish their plans for exhibiting, notwithstanding great efforts and much labor had been expended by many in the interest of their several localities.

The following report of the Jurors in Class 42, was submitted September 10th, and received the approval of the Board:

To the Board of Directors of the Mechanics' Institute.

GENTLEMEN:—The Committee appointed by you to examine Farm Products displayed at the Mechanics' Fair for the year 1888 beg leave to say that in

many cases the direction of the Trustees that the awards should be given for individual displays, could not be complied with, owing to the fact that the products were promiscuously displayed, rendering it impossible to designate the various exhibitors. In all such cases, as will be seen from the list of awards, the premium is given to the county.

Nine counties competed for the six sweeping premiums.

The displays of Farm Products by the counties of Contra Costa, Kern and Lake are excellent, both in variety and quality, yet in our judgment they were surpassed by those of the other six counties.

We therefore recommend that the counties of Contra Costa, Kern and Lake receive special mention for the excellence and variety of their respective displays.

The displays of Fresh Fruit were so numerous and excellent that it was a very difficult and delicate task to choose between them.

While J. H. Flickinger of Santa Clara County has a display of very excellent Apricots, Peaches and Prunes, we did not award him a premium, as other competitors displayed a larger variety.

We therefore recommend that Mr. Flickinger receive special mention for the excellence and quality of his display of Apricots, Peaches and Prunes.

The following awards are made, and we say in conclusion that the various exhibitors should be commended for the zeal which they exercised in maintaining their various exhibits, and that we arrived at our decisions after mature deliberation.

FRANK DALTON, Chairman,
A. J. GOVE,
S. P. HULME,
JOHN F. ENGLISH,
WM. CLUFF,
ELISHA RANSOM,
Committee.

THE COUNTY AWARDS.

We award to Santa Clara County the premium for the best, most extensive and varied exhibit of Farm Products, exclusive of live stock, of any county in the State, \$1,000.

We award to Sonoma County the premium for the second best display, \$600.

We award to Butte County the premium for the third best display, \$500.

We award to Stanislaus County the premium for the fourth best display, \$400.

We award to San Luis Obispo County the premium for the fifth best display, \$300.

We award to San Benito County the premium for the sixth best display, \$200.

INDIVIDUAL DISPLAYS.

GRAIN, ETC.

We award to John Bidwell, of Butte County, the premium for the best display of Wheat in grain and sheaf, not less than three sheaves, \$30.

We award to John Bidwell, of Butte County, the premium for the best display of Barley in grain and sheaf, not less than three sheaves, \$15.

We award to John Bidwell, of Butte County, the premium for the best display of Oats in grain and sheaf, not less than three sheaves, \$10.

We award to F. Ketchum, of San Luis Obispo County, the premium for the best display of Rye, in grain and sheaf, not less than three sheaves, \$10.

We award to John Bidwell, of Butte County, the premium for the best display of Corn, in ear and stalk, excellence and variety considered, \$10.

We award to Otis Allen, of Sonoma County, the premium for the best display of Hops, not less than 25 pounds, \$25.

We award to A. R. Woodhams, of Santa Clara County, the premium for the best display of Chevalier Barley, in grain, \$20.

FRUIT.

We award to John Bidwell, of Butte County, the premium for the best general display of Fruit, by the producer, \$75.

We award to E. Leedham, of San Luis Obispo County, the premium for the second best general display of Fruit, by the producer, \$40.

We award to E. Leedham, of San Luis Obispo County, the premium for the best display and variety of Apples, \$20.

We award to G. N. Whittaker, of Sonoma County, the premium for the second best display and variety of Apples, \$15.

We award to W. McPherson Hill, of Sonoma County, the premium for the best display and variety of Pears, \$20.

We award to Santa Clara County the premium for the second best display and variety of Pears, \$15.

We award to I. H. Thomas, of Visalia, Tulare County, the premium for the best display and variety of Peaches, \$20.

We award to Stanislaus County the premium for the second best display and variety of Peaches, \$15.

We award to J. B. Wakefield, of Santa Clara County, the premium for the best display and variety of Plums, \$15.

We award to Santa Clara County the premium for the best display and variety of Prunes, \$20.

We award to Sonoma County the premium for the second best display and variety of Plums or Prunes, \$15.

We award to J. S. Harvey, of San Diego, the premium for the best display of Citrus Fruits, \$50.

We award to Newhall Bros., of San Luis Obispo County, the premium for the second best display and variety of Citrus Fruits, \$25.

We award to Butte County the premium for the best display of Table Grapes, variety and excellence considered, \$50.

We award to Stanislaus County the premium for the second best display of Table Grapes, variety and excellence considered, \$30.

We award to Sonoma County the premium for the best display and quality of Wine Grapes, \$75.

We award to Contra Costa County the premium for the best display and quality of Wine Grapes, \$50.

DRIED FRUITS.

We award to R. C. Terry, of Contra Costa County, the premium for the best display of California Raisins, \$50.

We award to John Bidwell, of Butte County, the premium for the second best display of California Raisins, \$30.

We award to Mrs. O. J. Albee of Santa Clara County, the premium for the best general display of Dried Fruits, by the producer, \$50.

We award to Thomas Flint, Jr., of San Benito County, the premium for the second best general display of Dried Fruits, by the producer, \$30.

NUTS.

We award to John Bidwell, of Butte County, the premium for the best display of cultivated Nuts, by the producer, variety and quality considered, \$25.

We award to Dr. Strentzel, of Contra Costa County, the premium for the second best display of cultivated Nuts, by the producer, variety and quality considered, \$15.

CANNED AND PRESERVED FRUITS, ETC.

We award to J. H. Flickinger, of Santa Clara County, the premium for the best display of Canned and Preserved Fruits and Vegetables, by the factory, \$50.

We award to the Gilroy Packing Company the premium for the second best display of Canned and Preserved Fruits and Vegetables, by the factory, \$30.

We award to Mrs. O. J. Albee, of Santa Clara County, the premium for the best display of Jellies in Glass, home-made, \$10.

We award to Mrs. O. J. Albee, of Santa Clara County, the premium for the best display of Jams in Glass, home-made, \$10.

We award to Mrs. Rapp, of Contra Costa County, the premium for the best display of preserved Fruit in Glass, home-made, \$10.

None exhibited. Best display of Pickles and Sauces. by the factory,
\$10.

We award to Mrs. Coldwell, of Stanislaus County, the premium for the best assortment of Pickles, home made,
\$10.

VEGETABLES.

We award to J. V. N. Young, of San Luis Obispo County, the premium for the best general display of Vegetables, quality and variety considered,
\$25.

BUTTER, CHEESE, HONEY.

We award to E. G. Steele, of San Luis Obispo County, the premium for the best display of Butter,
\$25.

We award to A. B. Hasbrouck, of San Luis Obispo County, the premium for the best display of Cheese,
\$25.

We award to W. J. Dougherty, of Kern County. the premium for the best display of Honey,
\$15.

MEATS, ETC.

We award to Messrs. Barnett & Elliott the premium for the best general display of Canned and Preserved Meats,
\$10.

We award to Messrs. Getz Bros., Stanislaus County, the premium for the best display of Hams, Bacon and Lard,
\$10.

WOOLS AND COTTON.

We award to A. J. Honigsberg, of Humboldt County, the premium for the best display of Wool, not less than four fleeces,
\$25.

We award to P. Earlingsen. of Contra Costa County, the premium for the best display of Cotton, not less than fifty pounds,
\$15.

We award to C. P. Bailey, of Santa Clara County, the premium for the best display of Mohair, not less than fifty pounds,
\$10.

OLIVES AND OLIVE OIL.

We award to Geo. F. Hooper, of Sonoma County, the premium for the best samples of Olive Oil, by the producer,
\$25.

We award to Geo. F. Hooper, of Sonoma County, the premium for the best samples of Pickled Olives,
\$20.

Special Premiums Awarded by the Board of Trustees.

To Humboldt County for display of Woods,
\$25.

To Kern County for fine Peaches,
\$10.

To C. L. Durban, of Butte County, for best California Raisins, this year's production,
\$20.

COUNTY EXHIBITS.

In the following detailed description of County displays, the names of individual contributors have been given whenever known. The names of those exhibiting articles not included in Class 42 will be found under the proper heading in the various classes. [For list of premiums awarded see Report of Jurors at the commencement of this Class.]

BUTTE COUNTY.

Visitors at the Fair who desired to have an idea of the possibilities of this State found it in the exhibit from Butte County. The county has an area of 1,760 square miles, of which one-half is valley land, and the other half is rolling hills and mountains. What its soil and climate are is evident from its exhibit of 49 varieties of wheat, 12 of barley, 23 of corn, 7 of oats, and 11 of grasses. In fruits, there were 28 varieties of apples, 21 of pears, 19 of peaches, 10 of grapes, 9 of plums, 6 of prunes, 4 of oranges, with other citrus fruits in abundance, 4 of figs, 4 of olives, 14 varieties of nuts. Ramie and cotton were also shown. There were 45 varieties of wood exhibited, some of them beautiful in their high polish. Nor did nature stop here, but with her bountiful hand opened the rocks and displayed thirty-eight varieties of ores and stone, from gold to iron, from marble to granite, from coal to asphaltum; and the county yet hardly began developement, and is waiting for still more enterprising men to prove the limit of its possibilities.

The following-named gentlemen acted as Commissioners for the County to secure exhibits:

General John Bidwell, Chico; A. F. Jones, Oroville; D. K. Perkins, Oroville; S. S. Boynton, Oroville; B. F. Allen, Chico; T. B. Hutchins, Central House; Chas. H. Leggett, Oroville; A. H. Crew, Chico; J. H. Guill, Chico; E. T. Reynolds, Chico; H. H. Camper, Chico; Jesse Wood., Chico; Watson Chalmers, Chico; E. B. Price, Oroville; B. Russell, Paradise; Daniel Streeter, Biggs; C. L. Durban, Pentz; J. Rutherford, Wyandotte; H. F. Bader, Magalia; J. W. Bowers, Dayton; A. S. Anderson, Oroville; V. David, Chico; L. H. McIntosh, Chico; C. R. Reed, Gridley; Allen Henry, Chico; A. A. Hibbard, Chico.

Butte County received the third premium for County Products and the first for Table Grapes, Gen. John Bidwell the first premium for best display of Wheat, Barley, Oats, Corn, Nuts and Fruit by the producer, and second prize for Raisins, C. L. Durban received a special premium for best California Raisins of this year's production.

The display was in charge of B. F. Allen and Wm. Proud assisted by A. E. Hibbard and others, who politely and willingly answered the numerous questions of visitors.

The following-named contributors made up the display of farm products:

B. F. Allen, Fruits, Vegetables, etc.

Gen. John Bidwell, of Chico, general exhibit of Fresh and Dried Fruit, Vegetables, Cereals, Nuts, Canned Fruits, etc.

B. D. Boulevare, Wheat.

John Bruce, Timothy.

C. M. Bryant, Wheat and Barley.

V. Eastman, Wheat.

F. Gatlin, Wheat.

Joe Gardelli, Apples and Quinces.

W. V. Grooves, Pomegranates and Grapes.

J. H. Grubbs, Apples and Peaches.

Allen Hall, Corn.

J. Hazelbush, Wheat.

Albert Jones, Oranges.

C. H. Leggett, Grapes.

Wm. Looney, Wheat.

J. McGrann, Timothy.

L. McIntosh, Wheat.

J. Moore, Wheat.

B. Parish, Wheat.

W. Pence, Oranges.

C. Rabe, Wheat.

W. V. Roe, Apples and Peaches.

S. W. Ross, Apples and Peaches.

J. Seconi, Apples.

D. Streeter, Wheat.

Ed. Thomasin, Wheat.

H. C. Wilbur, Wheat.

Jesse Wood, Dried Fruit.

CONTRA COSTA COUNTY.

The Committee intrusted with obtaining the large and varied display which occupied a prominent space in the Pavilion were:

E. B. Smith, Martinez; Dr. John Strentzel, Martinez; L. L. Robinson, Antioch; David Bush, Martinez; H. C. Raap, Martinez; R. C. Terry, Clayton; F. J. Bigelow, Antioch; August Hemme, San Ramon; Mark Walton, Brentwood; Theodore Wagner, Walnut Creek.

The whole was in charge of H. C. Raap, who ably and politely gave visitors desired information. The great diversity of products and close proximity to this city must, in the near future, make Contra Costa County one of the most important counties in the State.

Contra Costa County received the premium for second best display of Wine Grapes, R. C. Terry for best display of California Raisins, Mrs. H. Raap for best Preserved Fruit, home made, P. Earlingsen for best display of California-raised Cotton, and Dr. J. Strentzel for second best display of Nuts.

The names of the principal contributors are here given:

Wm. Avery, Prunes, Pears and Nectarines.

M. R. Barber, Specimens of Woods. [Omitted in Class 16.]

Black Diamond Canning Company, Canned Fruit and Salmon.

Mr. Blankenship, Potatoes.

G. Blum, Plums.

S. Blum, Soap Stone and English Walnuts.

A. Boss, Plums, Prunes, Peaches, Raspberries, etc.*

J. W. Bradley, Plums and Pears.

L. Brain, Peaches, Plums and Grapes.

David Bush, Grapes Plums, Prunes, Peaches, etc.

Wm. Cluff, Pears, Apricots, Prunes and Grapes.

J. S. Duane, Nursery Stock.

M. Dunigan, Oranges.

Chaffin & Raap, Horse Shoes. [Omitted in Class 9.]

A. Christiansen, Sugar Pumpkin.

J. E. Close, Pears.

F. G. Coats, Wheat, in grain, and Plums.

H. Cope, Watermelons.

Seth Cook, Almonds.

Wm. Dukes, Plums, Peaches, Apples, Pears, Dried Prunes, Corn, Quinces, etc.

Fred Easton, Sonora Wheat.

L. J. Fish, Plums, Prunes, etc.

J. Fraser, Barley, in sheaf.

George Frazer, Hungarian Prunes.

C. G. Gould, Apples, Peaches, Apricots, Almonds and Corn.

H. P. Hardy, Plums, Preserved Fruit and Jellies.

O. E. Haywards, Tomatoes.

R. Hastie, Seedling Raisins and Pears.

J. F. Herrick, Building Stone. [Omitted in Class 29.]

Mrs. Hollenbeck, Plums, Pears and Peaches.

W. B. Holliday, Prunes and Tomatoes.

Mrs. V. Hook, Jams and Jellies.

J. Hook, Pears and Plums.

O. C. Huefner, Peaches, Plums, Prunes, Nectarine Grapes and Figs.

N. Jones, Peaches and Almonds.

M. Jones, Bartlett Pears.

J. S. Julian, Apples, Potatoes and Egyptian Corn.

Mrs. Lasselle, Silk Cocoons. [Omitted in Class 24.]

G. Marzolo, Broom Corn.

D. H. McKillip, Oranges.

P. G. Louks, Pop Corn, Sweet Corn and Onions.

Wm. Miner, Oil-bearing Rock. [Omitted in Class 29.]

Wm. Messic, Apples, Pears, Plums and Prunes.

J. Napthaly, Grapes.

- Mrs. Nottingham, Wild Oats.
 George Overfield, Plums and Pears.
 Dr. M. C. Parkinson, Grapes, Pears, Apples and Almonds.
 J. C. Peterson, Wheat, in grain, and Plums.
 S. Potter, Peaches, Pears and Prunes.
 H. Raap, Apples, Pears, Peaches, Plums, Prunes, Grapes, Figs, Nuts, Quinces, etc.
 Mrs. H. Raap, Preserved Fruit and Jellies, Figs.
 James Rankin, Coal. [Omitted in Class 29.]
 A. Roberts, Broom Corn, Canned Pears and Tomatoes.
 L. L. Robinson, Grapes, Vegetables, etc.
 M. Rogers, Corn, in ear, and Egyptian Corn Sheaves.
 P. Rogers, Bartlett and Clainger Pears.
 Russi & Sonner, Flour.
 H. Sage, Soft Shell Almonds.
 George Sellers, Peaches, Plums, Almonds and Raisins.
 Mrs. Sellers, Silk Cocoons. [Omitted in Class 24.]
 Selly Smelting Works, Blue Stone, etc. [Omitted in Class 29.]
 Mr. Sidell, Potatoes.
 W. M. Simpson, Apples, Plums, Prunes, Pears, Peppers, Tomatoes, etc.
 E. B. Smith, Plums, Prunes, Pears, Grapes, Peaches, Crab Apples.
 W. M. Simpson, Apples, Prunes, Plums, Pears, Peppers, Tomatoes, etc.
 S. Soto, Apples, Peaches, Walnuts.
 D. Stone, Grapes.
 Dr. J. Strentzel, Peaches, Pears, Apples, Plums, Prunes, Oranges, Nuts, Hops, etc.
 John Swett, Duchess Pears and Apricots.
 R. C. Terry, Grapes, Muscat and London Layer Raisins.
 D. R. Thomas, Castor Beans, Plums and Almonds.
 Capt. Thoron, Hungarian Prunes, Pears and Melons.
 Gen. Theo. Wagner. [See end of List.]
 M. A. Walton. Preserved Fruit, Dried Peaches and Prunes, Peaches, etc.
 Mr. Watt, Cotton.
 E. E. Webster, Peaches and Oranges.
 Mrs. Welty, White Australian Wheat.
 Wm. S. Wells, Japanese Pears.
 T. N. Wills, Peaches, Grapes and Almonds.
 L. C. Whittenmeyer, Peaches, Plums, etc.
 D. P. Williams, Plums and Crab Apples.
 H. Williams, Grapes, Peaches, Plums and Pears.
 R. D. Williams, collection of Fossils, Petrifications, Minerals and Gypsum.
 [Omitted in Class 29.]
 Mrs. Samuel Williams, Preserved Fruit, Jellies and Pickled Pears.
 R. H. Wright, Squash.

General Theodore Wagner made one of the finest individual exhibits in the Fair. A space about ten feet square in the Contra Costa display was fitted up

by him in the shape of a summer-house, the columns and roof being composed of sheaves and bundles of grain, while inside and around it were arranged every conceivable product of the farm, including wines and home-made jams, jellies, pickles and preserves by Mrs. Wagner. There was in the Pavilion no better representation of what a California farm can produce than the exhibit of General Wagner, and for which the Board of Trustees voted a *Special Certificate of Merit* in recognition of his efforts and comprehensive display.

HUMBOLDT COUNTY.

The citizens of Humboldt County took an active interest in the exposition this year. A Board of Commissioners consisting of John Vance, William Carson, Alex. Connick, J. F. Coonan and Peter Belcher was appointed, besides a large number of local Commissioners, to attend to the matter and prepare exhibits, which was done more particularly under the care of Mr. Peter Belcher, who had charge of the collecting, while the arrangement and charge in the Pavilion was done by Mr. F. A. Weck, who was indefatigable in his efforts to place the resources of the county in the most favorable position, and give information regarding the same.

While the principal wealth of Humboldt lies in her immense forests of timber, the agricultural products are steadily increasing, and now take rank in quality with any other portion of the State.

The county received a prize for the best display of Woods, and Mr. A. J. Honisberg, for best display of Wool.

The following-named contributors were represented in Class 42, while others will be found under the proper classification.

Chris Anderson, Quinces and three varieties of Apples.

James P. Anderson, bunch of Black Tartarian Oats seven feet six inches long, and bunch of White Oats seven feet long.

J. C. Barkdale, Corn, Oats, Wheat, Plums and Prunes.

Emma Boyer, Plums and Peaches in bottles.

Wm. Boyer, Tomatoes, Apples and Green Corn.

Ira Bresel, Oats in sheaf, Plums and Prunes.

J. H. Bayard, Butter.

C. C. Carlson, Rye.

A. P. Campley, Oats, Crab Apples and Prunes.

C. Chartin, Pears.

J. W. Cooper, Potatoes, Red Clover, Copper Ore and Oats.

C. Curkham, Tomatoes.

J. Dahle, Oats in sheaf.

C. C. Dickson, Potatoes.

J. O. Dinsmore, Oats and Barley in sheaf.

Evans Bros., 80-lb. Squash, four varieties of Apples, Hops, Tomatoes and Carrots.

Mr. Farmer, two varieties of Apples.
M. Fitzgerald, Tanbark.
M. Fitzsimmons, Potatoes and Plums.
Alex. Forbes, Pears and Plums.
Mr. Foulk, Peaches.
H. Geer, Beets.
C. E. Gordon, Apricots.
Charles Harmon, Raspberries.
A. J. Honigsberg, Wool.
J. G. Loveren, Patent Shingles and Sectional Roof. [Omitted in Class 16.]
D. McCann, Bunch of Timothy 7½ feet, and Clover 6½ feet long.
W. H. McDermott, Potatoes.
Michael McMillan, Apples.
James Meahan, Onions and Carrots.
John L. Mitchell, Beans and three varieties of Apples.
Mrs. S. D. Myers, Pears, Nectarines, Peaches and Nuts.
M. Nelson, Oats.
Jesse Noe, Apples.
Wm. Phelan, Potatoes.
Robert Porter, Wool.
J. Russ, Butter.
John Safford, two varieties of Apples.
Searles & Stone, Oats.
W. B. Shively, Apples, Pears, Peaches, Plums, Prunes and Nectarines.
Henry Stegmeyer, Plums and Peaches.
B. L. Wait, Plums, Prunes and Beans.
David Ward, Oats, Pears, Barley and Beans.
Eliza Wilson, Quinces, and three varieties of Apples and two of Pears.
Jacob Zendener, Barley and Oats.
George Zendener, Wheat and Oats.

KERN COUNTY.

The exhibit made at the Fair by Kern County tells a wondrous tale of California's productive soil. No words could convey in such an effective manner the possibilities of that veritable garden spot as the rich fruits of the soil shown in the collection. With an almost infinite variety of grains, fruits, vegetables, minerals, wool, honey, and many other articles, the specimens shown may be said to equal those from any part of the State.

Mrs. D. B. Rogers, who had charge of the exhibit, managed the interests of her County with as much ability as could be shown by any business man, and her effective preaching of the gospel of Kern interested many people in that marvelously fertile valley.

The Commissioners who were delegated to gather and prepare the collection were Herman Hirshfeld, E. M. Roberts, Alonzo Coons, H. C. Park and Richard Hudnut.

The Exhibit occupied a large and prominent place in the Pavilion, a special feature being a large and fine collection of Photographs, giving views of all the principal towns, vineyards, orchards, ranches, artesian wells, dairies, etc.

The County received a premium for display of fine Peaches, and W. J. Dougherty for best display of Honey.

The following-named contributors were represented:

H. A. Blodget, Apples, Nuts, Melons and Pears.

Mrs. Brower, Figs.

F. Buckrens, Apples, Grapes, Prunes and Pears.

Wm. Canfield, Cheese.

C. L. Connor, Apples, Pears and Grapes. Also a fine display of Cheese.

W. J. Dogherty, Honey.

E. Dumble, Lemons, Limes and Oranges.

J. Ellis, Cheese

Mr. Holtby, Prunes.

J. Keith, Wool.

C. A. Maul, Peaches and Bamboo.

Mrs. Morgan, Strawberries.

H. C. Park, Apricots, Nectarines, Peaches, Pomegranates and Potatoes.

Mr. Piper, Cheese.

Mr. Pyle, Cheese.

D. B. Rogers, Almonds.

C. Stockton, Alfalfa Seed.

J. Strong, Corn.

A. Swain, Alfalfa.

L. E. Taylor, Peaches.

S. Wible, Peaches Plums and Vegetables.

LAKE COUNTY.

The following Commissioners were appointed to secure a representation from Lake County:

G. Scudamore, Lakeport; James Stewart, Middletown; T. W. Beakbeane, Lower Lake; Captain R. S. Floyd, Lakeport; N. Graham, Upper Lake; Hon. L. H. Boggs, Lakeport; Marshall Arnold, Lakeport; J. B. Baccus, Lower Lake; John R. Cook, Lakeport; A. E. Noel, Lower Lake; H. A. McCraney, Lakeport; A. H. Cheney, Middletown; J. R. Garner, Lower Lake; D. C. MacDougall, Lakeport; R. T. Polk, Lakeport; P. B. Graham, Middletown; A. B. Rodman, Lakeport; J. E. Combs, Lakeport; C. F. Cornwall, Kelseyville; W. G. Young, Kelseyville; E. C. Parker, Upper Lake; George Yount, Bartlett Springs; Dr. C. M. Bates, Highland Springs; T. B. Carey, Lower Lake; G. S. Hertslett, Lower Lake.

The exhibit, though not as large as some others, was creditable, and comprised a general display of farm and natural products, minerals, etc., as will be seen by the list of contributors and articles.

Mr. H. A. McCraney, of Lakeport, was in charge of the Exhibit. His long residence and extensive acquaintance in the county made his services of especial value in giving information and statistics to visitors.

CONTRIBUTORS.

Isaac Alter, Apples, Pears, Plums, Corn, etc.
 W. D. Bassett, Apples and Pears.
 Bradford Mine, Quicksilver. [Omitted in Class 29.]
 California Mills, Flour.
 T. Coggsell, Potatoes.
 D. H. Caldwell, Apples.
 James H. Combs, Apples, Grain and Pears.
 R. P. Eachers, Pears, Prunes, Plums and Apples.
 N. Graham, Apples, Plums, Prunes, Nectarines and Vegetables.
 A. H. Gwin, Apples.
 C. A. Gwin, Grain, Grapes and Fruit.
 S. C. Hastings, California Wines. [Omitted in Class 31.]
 Highland Springs, Minerals. [Omitted in Class 29.]
 Barry Howard, Pears, Prunes, Plums and Apples.
 Mrs. Emma Lyons, Apples, Pears, Plums and Prunes.
 Geo. A. Lyons, Prunes, Plums, Apples, Pears, etc.
 James Mall, Apples and Peaches.
 R. D. Merritt, Grain.
 W. H. Mills, Apples.
 W. B. Mundy, Pears, Prunes, Plums, etc.
 W. H. Poe, Pears, Prunes, Apples, Plums, etc.
 E. C. Riggs, Peaches, Apples, Pears, Plums, etc.
 G. Scudamore, Pears, Apples and Prunes.
 Mrs. C. Smith, Apples, Peaches and Pears.
 Geo. Thorrrington, Peaches.
 T. G. Turner, Apples, Pears, Plums, Prunes, etc.
 W. R. Vickery, Potatoes.
 W. W. West, Apples, Pears and Peaches.
 E. P. Wray, Peaches, Plums, Pears and Apples.
 W. G. Young, Peaches, Plums, Prunes. Pears, etc.

 NAPA COUNTY.

There was only one exhibitor from Napa County, Mr. Henry E. Barker, who displayed some very fine Late Crawford Peaches.

 PLACER COUNTY.

P. W. Butler of Penryn was the only representative of Placer County, his display consisting of some remarkably fine specimens of Peaches.

SAN BENITO COUNTY.

San Benito County this year made a large and interesting exhibit of her varied resources and products. The Committee of Management consisted of Thomas McMahon, Thomas Flint, Jr., Wm. B. Winn, Wm. Palmtag, Wm. Buck and Charles Straube, and the success of their efforts was shown by the display of almost everything the earth can produce.

The general arrangement of the articles and management during the exhibition, was under the supervision of Mr. J. L. Ross, who ably filled that position.

In accordance with the recommendation of the Jurors of Award, the County received the prize for the 6th best display of products, and, in addition, Thomas Flint received the award for the 2d best display of Dried Fruit.

The contributors, as far as could be ascertained, were:

Z. L. Baldwin, Wheat in grain and sheaf.

J. Breen, Chevalier Barley.

P. Dougherty, Barley in grain and sheaf.

Thomas Flint, Dried Fruits.

B. J. Inglass, Wheat in grain and sheaf.

L. M. Ladd, Wheat in grain and sheaf.

R. P. Lathrop, Hay, Wheat and Oats.

J. Legmacino, Fruit and Vegetables.

Y. Malarini, Cheese.

Mrs. Maloney, Wheat in grain and sheaf.

J. B. McAbee, Fruit and Vegetables.

J. McCann, Rye in grain and sheaf.

Geo. McConnell, Fruit and Vegetables.

T. McLaughlin, Chevalier Barley in grain and sheaf.

Geo. Mitchell, Cheese.

A. S. Murphy, Oats in grain and sheaf.

V. B. Nash, Wheat in grain and sheaf.

Nash & Co., Cheese.

R. G. Norton, Wheat in grain and sheaf.

Jacob Nye, Green Fruit.

H. Perry, Green Fruit.

R. Radcliff, Wheat in grain and sheaf.

L. Raggs, Wheat in grain and sheaf.

J. Ross, Wheat in grain and sheaf.

R. Rutledge, Fruit and Vegetables.

J. A. Searles, Fruit and Vegetables.

D. Wilson, Oats in grain and sheaf.

SAN DIEGO COUNTY.

This County was represented by Mr. J. S. Harvey, who made a large and fine display of Oranges and Lemons. They were arranged on tables near the front entrance and justly attracted much attention from visitors. Mr. Harvey received the award for the best display of Citrus Fruit.

SAN LUIS OBISPO COUNTY.

The display of San Luis Obispo County, under the able supervision and management of Mr. E. Leedham, of Arroyo Grande, assisted by Capt. E. H. Biever and A. M. Hardy, was complete in every respect, and one that attracted universal attention, and no doubt will be of vast benefit to the County.

Inquirers searching for statistics and samples of the products of the lands of our State for the purpose of investment and settlement lingered long over the wonderful products displayed, and the impression there received in many cases decided where their future home should be. Much of the virtues of the fruit and vegetables of this County is due to the fact that everything is raised without resorting to irrigation. Everything can be raised there to which the climate and soil is adapted without resorting to artificial aids, and it is well known that fruit raised in this way usually possesses the best flavor. The rainfall in this county is several inches per annum heavier than it is in the adjoining counties. With her great natural advantages of transportation by sea and rail, equable climate and prolific soil, why should not her lands be in demand.

The following named gentlemen were selected to act in securing exhibits:

E. Leedham, Capt. J. C. Currier, D. W. James, J. V. Webster, W. D. Haley, J. C. Baker, Sam. Donati, R. E. Jack, A. Phillips, J. T. Beckett, A. M. Hardie, H. E. Ketchum, E. W. Steele, Mark Elberg, Benjamin Brooks, W. W. Hayes, Frederick Adams, E. A. Atwood, J. W. Orcutt.

The exhibit was well displayed, and, being constantly renewed, the fruits looked always fresh and inviting. Fine specimens of almost every kind of fruit adorned the tables. These included numerous varieties of pears, apricots, prunes, nectarines, peaches, grapes, oranges, lemons, quinces, almonds, walnuts, etc., and in short nearly all the luscious products of the tropic and temperate zones. The lemons were large and thin-skinned. Also splendid specimens of beets, cabbages, turnips, carrots, squash, radishes, cucumbers, beans, etc., and a fine display of grain, beans, etc., in glass jars. San Luis Obispo produces the most and the finest white beans of any county in the State, and her apples are ahead of all, being juicy, fine flavored and free from pests. Against the wall of the Pavilion was placed a fine collection of cereal grains and of corn. The latter showed stalks about twenty feet high. The ability of the county in æsthetic lines was shown by a sunflower, which measured fifty-seven inches in circumference. A high grade of cheese was also a prominent feature of the exhibit.

In minerals San Luis Obispo County produces gold, quicksilver, ochre, coal, and a fine quality of light sandstone.

The Valley of Arroyo Grande furnished a large part of the display, while Paso Robles, Cayucos and San Miguel deserve credit for assisting in making the exhibit.

This County received the premium for the fifth best display of Country Products, and for individual exhibits.

F. Ketchum received the premium for the best display of Rye.

E. Leedham received the premium for the second best display of Fruit, by the producer.

E. Leedham received the premium for the best display of Apples.

Newhall Bros. received the premium for the second best display of Citrus Fruit.

J. V. N. Young received the premium for the best display of Vegetables.

E. G. Steele received the premium for the best display of Butter.

A. B. Hasbrouk received the premium for the best display of Cheese.

The following-named contributors were represented in this Class.

Arroyo Grande (ladies of), 14 boxes of Flowers.

H. Bakeman, Fruit.

Charles Bales, Grain,

Mr. Bardor, Fruit.

J. Barnett, Fruit and Vegetables.

Manuel Barsellas, Fruit.

J. T. Becker, Fruit.

Capt. E. H. Bevin.

Mrs. D. D. Blackburn, Grain and Fruit.

James Blackburn, Fruit.

Brown & Liddle, Grain.

Canady & Sullivan, Grain.

J. C. Currier, Grain and Fruit.

M. Draper, Vegetables.

Levi Exlinn, Vegetables.

James Ferguson, Squash.

W. H. Findley, Fruit and Vegetables.

Gibson & Lyons, Grain.

W. B. Graham, Grain.

C. Greeb, Fruit and Vegetables.

Judge Gregory, Fruit.

J. Gregory, Peaches and Apricots.

Henry Haas, Fruit and Vegetables.

Austin Hampton, Fruits.

A. M. Hardy, Fruit.

Ranch, Harrison, Fruit.

Mr. Kester, Fruit.

A. M. Kunitz, Fruit.

J. Kyte, Fruit and Vegetables.

J. Lasswell, Broom Corn.

Lorne Bros., Fruit and Vegetables.

G. Maddagh, Fruit.

Henry Martin, Fruit.

J. McGlashan, Fruit.

F. Melton, Fruit.

Newhall Bros., Citrus Fruit.

D. M. Newsom, perfect Sunflower and fine Poppies.

T. Patterson, Fruit.
Phillips Bros., Fruits, Vegetables, Beans, Grain, etc.
J. Pool, Fruit.
Uriah Porter, Fruit.
J. F. Read, Fruit.
T. B. Record, Fruit and Vegetables.
W. Rice, Vegetables.
J. C. Roberts, Fruit and Vegetables.
T. Suley, Fruits.
W. D. Sevier, Fruits.
Thos. Sharon, Grain.
W. N. Short, Fruit and Vegetables.
E. W. Steele, Fruits.
E. G. Steele, Butter.
G. O. Taylor, Fruits and Vegetables.
J. Taylor, Fruits.
Bert Vangrundy, Fruits.
Judge McD. R. Venable, Fruits.
J. V. Webster, Hops and Egyptian Corn.
B. Weller, Fruit.
J. T. Whitney, Fruit.
J. V. N. Young, Fruit and Vegetables.

SANTA CLARA COUNTY.

The display from this County was one of the largest and finest ever made in this State, and was recognized by the Committee on Awards as deserving the first prize. The names of the General Committee who promoted the success of this grand representation of California products were:

N. J. Haines, Chairman, J. M. Thorpe, Cyrus Jones, Mrs. E. O. Smith, Mrs. L. J. Watkins, W. T. Adel, George Evans, Dr. H. C. Morey, Mayor S. W. Boring, E. E. Goodrich, F. M. Tenney, O. J. Albee, J. P. Rose, Gilroy, F. M. Farwell, A. Block, J. H. Flickinger, G. M. Jarvis, E. Bourguignon, R. D. Fox, D. C. Feeley, Captain J. C. Merrithew, C. P. Bailey, C. T. Settle, Geo. H. Flemming, C. W. Williams, S. W. De Lacy, C. M. Shortridge, H. H. Main, B. A. Wardell, H. A. Brainard, N. H. Downing, Trantum & Suydam, F. W. Blake, W. P. Hughes; Elma Glover, Secretary.

Mrs. E. O. Smith, Mrs. L. J. Watkins and Mrs. G. M. Jarvis were on hand at an early date receiving and arranging exhibits, and were indefatigable workers until the close of the Fair. The thanks of the county are due those ladies for their earnest and untiring efforts.

Mrs. O. J. Albee and Elma Glover are also deserving of praise for their zeal, as also many others who from time to time were present to assist in the work and entertain visitors. A novel and new feature by this County was a Flower Day and Vegetable Day. On the first it seemed as if the goddess

of flowers was holding high carnival in the space set apart for Santa Clara. Each table, column and stand bore its weight of rare and beautiful flowers, all sent by enthusiastic citizens of San Jose, Santa Clara, Gilroy, and other towns to decorate for this time their already wonderful exhibit, which was surrounded all day and evening by admiring and astonished visitors, as such quantities of floral beauty massed together is rarely seen, even here, in the land of flowers.

And not less astonished were visitors on the opening of the "Vegetable Day," when the tables were loaded with several car-loads of the largest and finest vegetables ever grouped together and seen in San Francisco.

As before stated, Santa Clara County received the first premium of \$1,000, for the best display of Country Products.

A. R. Woolhaus received the premium for the best display of Chevalier Barley.

L. H. Wakefield received the premium for the best Plums.

Mrs. O. J. Albee received the premium for the best display of Dried Fruit, and best home-made Jellies and Jams.

J. H. Flickinger received the premium for the best display of Canned Fruit.

The Gilroy Packing Company received the premium for the second best display of Canned Fruit.

C. P. Bailey received the premium for the best display of Mohair.

The names of Contributors in this Class, as far as could be ascertained, are here given; others will be found under the appropriate heading:

O. J. Albee, Fresh, Dried and Preserved Fruits, Jellies, Jams and Pickles.

Mr. Ballard, Green Fruit.

J. A. Belolli, Honey.

A. Block, Pears.

H. Booksin, Green Fruit.

Board of Trade, San Jose, seventy-five varieties of Grapes.

C. H. Brandenburg, Green Fruit.

J. W. Dawson, Canned and Preserved Fruits and Vegetables.

Frank Farwell, Vegetables.

Gilroy Packing Company, Canned and Preserved Fruit and Vegetables.

Mrs. Fannie Horn, Jams, Jellies and Green Fruit.

Mr. Hotchkiss, Green Fruit.

Mrs. S. T. Ingalls, Green Fruit.

Cyrus Jones, Nuts.

Mrs. M. N. McGlinchey, Green Fruit.

F. W. Mitchell, Green Fruit.

E. C. Morse, Garden Seeds.

F. Naramore, Green Fruit.

J. D. Portal, Wine Grapes.

Bozo Radovich, Pears and Apples.

John Rock, Apples, Berries and Olive Trees.

J. P. Rose, Green Fruit.

S. P. Sanford, Green Fruit.

Mr. Shipman, Green Fruit.

S. M. Tennee, Vegetables.

T. H. Wakefield, Green Fruit.

R. S. Woodhams, Green Fruit.

J. H. Flickinger (San Jose) made one of the finest displays of Canned, Dried and Preserved Fruit ever seen in San Francisco. They comprised almost every variety, and were arranged in an unusual but very attractive manner. Most if not all of the fruit used by Mr. Flickinger is grown in his own orchards, and all the cans, boxes and packages required in his extensive cannery are made on the premises. He is a true representative of California enterprise and industry. Mr. Flickinger received the prize for the best canned fruit by the factory.

The Gilroy Packing Company, in the Santa Clara County display, had a large exhibit of canned fruits, put up at their extensive factory at Gilroy. The quality of the fruit being first-class, it is meeting with much favor from dealers and consumers. The company received a premium for the second best display.

SOLANO COUNTY.

J. R. Wolfskill had the only exhibit from Solano County, consisting of very fine Peaches, Pears and Grapes.

SONOMA COUNTY.

Old Sonoma was again to the front with a display of her choicest productions. The value of these Fairs as a medium of information to intending buyers of land and permanent settlers in our State is recognized by her wide-awake citizens who never let slip such opportunities to advance their interests. The Committee to whom was assigned the matter of securing exhibits consisted of:

Hon. H. W. Byington, John Adams, W. N. Whitaker, Mrs. Kate F. Warfield, E. A. Rogers, J. H. Drummond, Wm. D. Sink, Robert A. Poppe, M. K. Cady, Isaac De Turk, F. E. Shearer, Mark L. McDonald, Allen B. Lemmon. Robert Howe, H. H. Granice, J. N. Bailhache, Guy E. Grosse, Jonathan Roberts, W. C. Kellogg, E. W. Woolsey, J. C. Holloway, Martin Litchfield, George Huntley, Otis Allen, Joseph Purrington, Charles Solomon, Geo. T. Trowbridge, Eli T. Shepherd, Geo. F. Hooper, Thos. D. Morris, W. H. Hilton, T. S. Glaister, O. B. Shaw, R. B. Thomas, H. E. Boyes, Mrs. A. C. Boyes, Mrs. Caleb Carriger, Thomas Gregory, G. A. Tupper, Mrs. Gail Cady and S. H. Shaw.

The forwarding of the articles, arranging and attendance at the Pavilion was in charge of the Executive Committee, John Adams, E. A. Rodgers and F. E. Shearer, who faithfully earnestly and successfully carried out the wishes

of the citizens of Sonoma County and sowed the seed of information to such effect that another year will surely increase the adult population and taxable property of that favored part of our prolific State.

The possibilities of Sonoma County need no more be mentioned. What is, is a showing for any State to be proud of. In quantity, quality and variety of products that county in itself is almost a kingdom. In fact, more than a kingdom, for every man is noble and can be a prince in his own domain. To attempt to describe the great display of grains, fruits, vegetables, wines, woods and other articles collected and appropriately grouped together would require more space than is at our command. Sonoma County received the award for the second best display of county products—Otis Allen for best Hops, G. N. Whittaker for second best display of Apples, W. McPherson Hill for best Pears, Geo. F. Hooper for Olive Oil and Pickled Olives.

The following list of exhibitors in this class alone will give an idea of the interest taken:

- John Adams, Apples, and ten varieties of Pelts of wild animals.
- D. Adler, Pears.
- Otis Allen, Corn and Hops.
- John Bailiff, Graded Wool.
- J. F. Billings, Apples, Pears, Plums, Peaches and Quinces.
- A. Bouton, Pears, Plums, Prunes and Peaches.
- Mrs. F. J. Bowman, Olives, Oranges, Walnuts and Cucumbers.
- Mrs. H. E. Boyes, Peaches, Pears and Grapes.
- H. W. Byington, Plums, Nectarines, etc.
- B. F. Campbell, Peaches and Quinces.
- Mrs. C. C. Carriger, Peaches, Pears and Plums.
- J. H. Chenowith, Apples, Pears, Peaches, Plums, Grapes, Nuts, etc.
- L. O. Coon, Dried Peaches.
- O. W. Craig, Grapes.
- E. P. Cutter, Pumpkins.
- W. D. Davis, Peaches, Prunes, Plums, Melons and Squash.
- H. Drago, Pears and Peaches.
- John Dutton, Dried Peaches.
- F. F. Ennis, Plums and Prunes.
- J. H. Fowler, Timothy Heads.
- Mrs. E. R. Gofurth, Grapes and Flowers.
- E. Hathaway, Apples.
- J. G. Healds, Grapes.
- Healdsburg Cannery, Canned and Preserved Fruits and Vegetables.
- W. McP. Hill, Apples, Pears, Peaches, Prunes and Plums.
- W. H. Hilton, Pears and Plums.
- R. Howe, Pears.
- Mr. Hughes, Pumpkins.
- L. Jennings, Plums.
- J. R. Jewell, Cheese.
- R. C. Johnson, Vegetables.

- R. Kingwell, Apples, Peaches, Prunes, Plums and Grapes.
Wm. Kloppenburg, Apples, Plums and Prunes.
A. V. Lamotte, Dried Prunes, Melons and Gourds.
J. P. Lang, Plums, Pears, Corn and Osage Oranges.
C. F. Leiding, Apples, Pears, Prunes, Figs, Grapes, Nuts, Corn, etc.
D. Litchfield, Pears, Plums, Peaches, Prunes, Apples, Grapes, Figs, etc.
W. Maddocks, Peaches.
Magnolia Cannery, general assortment of Preserved Fruits.
Jos. Maillard, Squash.
J. McKenzie, Pears and Apples.
Morris Bros., Apples, Pears, Plums and Prunes.
Petaluma Cannery, general assortment of Fruit in Glass.
D. D. Phillips, Apples, Pears, Peaches, Plums and Prunes.
D. D. Proctor, Apples, Plums and Pears.
J. W. Rickett, Peaches and Apples.
E. A. Rogers, Melons, Prunes, Grapes, Peaches, Pears and Apples.
D. C. Rogers, Corn and Figs.
Mr. Sanborn, Peaches.
Santa Rosa Cannery, general assortment of Fruit in Tin.
Santa Rosa Packing Company, Pears and Canned Fruit.
C. Sawtell, Plums and Pears.
E. Shaw, Plums.
Mrs. J. E. Shaw, Oranges and Peaches.
O. B. Shaw, Nectarines, Grapes, Prunes, Plums, Peaches and Apples.
S. H. Shaw, Dried Prunes and Fruit in glass, Vegetables, Nuts, Plums, Peaches, Pears and Apples.
W. D. Sink, Figs, Plums, Prunes, Grapes, Peaches, Apples and Pears.
A. S. Scaggs, Hops.
John P. Stanley, two Frames of Preserved Flowers.
G. C. Taylor, Pears and Apples.
Zach Thomas, Plums.
John Underhill, Grapes.
James Watson, Oats.
A. T. Whitney, Butter.
J. W. Wiley, Peaches and Apples.
Wilson & Co., Apples and Peaches.
T. P. Winters, Grapes.
E. W. Wolsey & Son, Dried Peaches, Pears and Apples.
E. W. Woolsey, Wool.
C. & S. Woodworth, Apples.
J. Wordsworth, Pears.
N. Zambellich, Peaches.

STANISLAUS COUNTY.

Stanislaus County, comprising over 700,000 acres of land susceptible of cultivation, is conceded to be one of the most fertile portions of the State. Its relative position to the principal cities and markets is of great advantage to the producer, being two hours by rail to tide-water and only four hours to Port Costa.

The display of products from that favored section was a special feature of the Fair this year. A large space was secured at an early date, and on the opening day was well filled with the varied products of that county, appropriately grouped and artistically arranged by Mr. J. B. Coldwell and wife, assisted by their daughter.

The home Committee for securing contributors were:

A. Schell, J. B. Coldwell, Robert McHenry, C. N. Tharsing, J. R. McDonald, L. M. Hickman, S. R. Clayes, Henry Cahen, E. B. Beard, K. Vogt, L. Kahn, Joseph Dominice and C. N. Whitmore.

A catalogue of the exhibit was printed and distributed to visitors, and any article mentioned would be, if desired, at once shown by Mr. or Mrs. Coldwell; and when we state the list comprised over 400 different articles an idea of the vast collection may be had. There were 13 varieties of Wheat in grain and sheaf, 3 of Barley, 3 of Hay, 5 of Corn in ear and stalk, 6 of Grass, 3 of Pumpkins, 3 of Squash. Four varieties of Oranges were shown. The "Maltese Blood" was shown on a tree growing in the Pavilion on which were over 100. Lemons, Pomegranates, Olives, 2 varieties of Japanese Persimmons, 2 of Nectarines, 4 of figs, 19 of Peaches, 3 of Quinces, 4 of Apricots, 10 of Apples, 3 of Crab Apples, 12 of Pears, 11 of Plums, 5 of Prunes, 11 of California Nuts, 19 of Grapes, 15 of Dried Fruits, 10 of Preserved Fruits for table use, 5 of Cherries, 5 different kinds of Berries, 12 of Jellies, 7 of Jams, 16 of Pickles, 30 of various Seeds, 20 of Vegetables, 19 of Woods, 11 of Brandies and Wines, 4 of Mineral Waters, 15 of Mineral and Iron Ores; Needlework in great variety, several inventions, and an aquarium containing German Carp, Gold and Silver Fish.

Under the term of "Miscellaneous" the following articles were enumerated: Cake and Bread, Castor Beans (two kinds), Tobacco, Barberries, White Egyptian Corn, Red Egyptian Corn, Buckeye, Hoarhound, Pine Cones, Feathers, Colagogue Root, Julip Straws, Charcoal, Paving Stone, Bacon, Lard, Cheese, Eggs (18 varieties), Soft and Hard Soap, Lye, Metheglin, Flour and Mill-stuff, Gourds (three kinds), Osage Oranges, Candles (home-made), Sweet Pods, Sunflower, Wild Coffee, Wild Sage, Broom Corn, Hive of Bees and Honey, Feather Fan, Tooth Picks, Shoe Pegs, Bricks, Painted Doorstone, Hams, Butter, Beeswax, Wool, Vinegar (wine, peach, cider), Unfermented Wine, Mint, Cotton (Storm-proof, Nankeen, "Waukain.")

Stanislaus received the premium for the fourth best display of Farm Products, the second best display of Peaches, the second best display of Table Grapes, best display of Hams, Bacon and Lard, and a special award for Wool. Mrs. J. B. Coldwell obtained a special premium also for the best home-made Pickles.

The names of contributors of Farm Products, as far as ascertained, are here given:

- Mrs. J. S. Alexander, Ornamental Arch, made of wheat sheaves and grain.
- E. Amsbaugh, Corn, in ear and stalk, also a Bee-hive.
- F. Anaya, Plums and Figs.
- P. Arrata, Fruit in Glass, home-made.
- J. W. Bailey, Corn, in ear and stalk, and Fruit in glass.
- C. C. Baker, Wild Plums.
- R. E. Bangs, Wheat, Crab Apples, etc.
- V. E. Bangs, Rye, Raw Cotton, Fruit and Nuts.
- Z. Barsh, Wheat, in grain and sheaf.
- E. R. Beard, Wheat, in grain and sheaf, and Figs.
- E. P. Bennett, Wheat.
- R. Bentley, Wheat and Barley, in grain and sheaf.
- James Berry, Cherries.
- C. Bertorelin, Vegetables and Potatoes.
- J. Brickman, Figs, in glass.
- Mrs. J. B. Coldwell, Wheat, Fruit, Vegetables, Jellies, Jams, Nuts, Butter, Cheese, Pickles, Sauces, etc.
- J. H. Carpenter, Bees-wax.
- A. Carrallo, Onions.
- A. G. Carver, Wheat, in grain and sheaf.
- A. E. Clarey, Wheat.
- E. Clark, Rye.
- S. W. Coffee, Ham, Lard and Cucumbers.
- W. F. Coffee, Barley, Fruit, in glass, etc.
- E. B. Coggsell, Figs.
- H. Cohen, Wheat in sheaf.
- H. Cole, Apples.
- A. Collins, Raisins.
- E. Crawford, Wheat and Barley.
- W. C. Dale, Wheat in grain.
- J. F. Davies, Figs in glass.
- J. W. Davison, Plums, Cotton, etc.
- M. D. Gregory, Potatoes.
- W. F. Draper, Fruit in glass.
- W. H. Finley, English Walnuts.
- L. A. Finney, Australian Wheat in sheaf.
- J. Fox & Co., Chile Wheat in sheaf.
- Mrs. Gaillert, Fruit in glass.
- S. Gibson, Barley in sheaf.
- W. J. Givens, Fruit in glass.
- Mrs. R. Gridley, Seedling Plums.
- H. B. Guernsey, Wheat in sheaf.
- J. S. Hammond, Barley in grain and sheaf.
- J. Hardesty, Blue Figs.
- B. J. Harris, Fruit in glass.

Holslacher & Co., Fruit in glass.
C. H. Hinning, Fruit in glass.
K. Jamison, Wheat in sheaf.
Mrs. D. G. Kerr, Fruit and Jellies in glass.
J. F. Kerr, Blue Figs, Potatoes, etc.
G. Killborn, Grapes.
Kirkpatrick & Co., Spanish Merino Wool.
Dr. L. E. Lyman, Potatoes.
John McDonald, Wheat and Barley in sheaf.
Robert McHenry, Barley, Corn and Apples.
M. E. Parsonage, Smyrna Figs.
S. Miller, Cheese and Green Fruit.
A. Monatti, Gherkins.
J. S. Muncey, Wheat, in sheaf.
Murray & Baldin, Wheat, in sheaf.
S. Newman, Wheat and Barley, in sheaf.
Rev. Mr. Odum, Smyrna Figs.
F. Pasch, Cherries, in glass.
S. N. Porter, Crab Apples, in glass.
G. Pritchett, Fruit and Jellies, in glass.
A. W. Root, Wheat and Tomatoes.
M. B. Root, Crabb Apples, in glass.
W. G. Ross, Mineral Water and Plums, in glass.
Ira Rowe, Fruit, in glass, and Apples.
Mrs. M. Shirran, Peaches.
Smith & Son, Fruit, in glass.
Joe Spenker, Barley, in sheaf.
N. Saniford, Fruit, in glass, Wheat, etc.
J. E. Stewart, Fruit, in glass.
J. F. Stewart, Corn, Wheat and Barley.
C. N. Tharsing, Dried Fruits, Apples, Peaches, Pears, Plums, Vegetables,
and Fruit, in glass,
G. Turner, Wheat and Rye, in grain, and Blue Figs.
G. Usher, Wheat, Corn, Hemp and Eggs.
K. Vogt, Oranges.

VISALIA COUNTY.

Mr. Isaac H. Thomas, of Visalia, made a remarkably fine display of Fruit, consisting of fifteen varieties of Peaches, three of Plums, three of Prunes, two of Grapes, Bartlett Pears and Preserved Fruit in glass. His was the largest single exhibit of Fruit, and occupied a prominent place in the Pavilion. Mr. Thomas' specialty is Peaches, in which he takes great pride, raising only the best and choicest varieties. His generosity and good-will in giving to those who are unable to purchase seed and trees has justly earned him the name of the "Widow's Friend." The Committee awarded to him the first premium for Peaches.

REPORT OF THE COMMITTEE

ON

Institute and Inventors' Medals.

IN accordance with the following Section of Rule XV. of the Rules and Regulations—

“The Mechanics' Institute offers the Institute Gold Medal for the best display of California-manufactured articles, and the Inventors' Gold Medal for the best and most useful recent Pacific Coast invention not heretofore receiving any award,”

—a competent Committee was appointed, who, after a careful and thorough examination of the competitive exhibits, presented the following report:

To the President and Board of Trustees of the Mechanics' Institute, San Francisco, Cal.:

GENTLEMEN:—We, the undersigned, Jurors appointed by your Honorable Board to examine and report upon the best display of California-manufactured articles, and also upon the best and most useful recent Pacific Coast invention, beg to report that they have made the required examination and find that the best display of California-manufactured articles is that made by the Union Iron Works of San Francisco; and that the best and most useful recent Pacific Coast invention is the Mariners' Automatic Registering Compass (the invention of C. O. Farciot), exhibited by Capt. Chas. Goodall.

SAN FRANCISCO, CAL., September 15th, 1888.

Respectfully submitted,

HENRY ROOT,
WM. H. BIRCH,
N. W. SPAULDING,
JOHN HAMMOND,
J. KIRK FIRTH,
Committee.

[The Report of the Committee was approved by the Board of Trustees and the medals awarded. See Classes 8 and 35.]

REPORTS
FROM
STANDING COMMITTEES
OF THE
Twenty-Third Industrial Exposition.
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BUILDING.

*To the President and Board of Trustees of the Mechanics' Institute:*

GENTLEMEN:—Your Committee on Buildings beg leave to report as follows: The Pavilion having been repaired and put in first-class condition during the summer months, the Committee had but little to do with or for the main building except to prepare the usual and necessary platform, tables, etc. Owing to the large increase of the orchestra the old music-stand was found to be altogether too small, and necessitated the building of an addition to it, which, with linoleum to cover the floor, made quite a large item of expense.

The carpet belonging to the ladies' sitting-room, being very much worn, the Board authorized this Committee to purchase a new one and lay it down, which was done in time for the opening. Being of good quality, it will last for several years, if used only during the Fair. It might be well to have the old one repaired, cleaned and relaid for use of parties renting the Pavilion.

A new annex, 52x55 feet, between the other annexes on Hayes street, was built to accommodate the expected wants of the Exposition; but, being a permanent improvement belonging to the Pavilion Department, it does not belong to this report. An itemized account of our expenses will be found in the Financial Report under the head of "Building."

Before the commencement of another Fair we would recommend that a new music-stand be constructed of suitable size and of such material and shape as will allow it to be readily and easily moved to any part of the building on the main floor. Much expense and great inconvenience may thus be avoided, particularly in rentals of the Pavilion.

All of which is respectfully submitted,

D. A. MACDONALD,  
DAVID KERR,  
COLUMBUS WATERHOUSE,  
*Committee.*

**LOCATION AND POLICE.**

*To the President and Board of Trustees of the Mechanics' Institute:*

GENTLEMEN:—Your Committee on Location and Police submit the following as their final Report in the discharge of the duties assigned us:

We believed some changes from last Fair were needed, and accordingly had the walks and aisles made wider and the locations of the different exhibits changed, as far as possible.

The strong recommendations of the Committee of former Fairs, in regard to signs and obstructions, was approved by us and generally carried out. It had the effect of greatly lessening the complaints formerly made, and we would strongly urge the next Board to carry out the same rule, and not allow any signs or other obstructions to be erected that would spoil or obstruct the general view of the building.

The Music was placed this year in the centre of the Pavilion, and we believe it gave much better satisfaction to our visitors and music-loving patrons.

Your Committee made the usual application to the Chief of Police for officers to be on duty at the Pavilion during the Fair. Chief Crowley promptly responded to our request, and detailed Capt. Harmon and other officers to report for duty at the Pavilion. Our thanks are due the Chief for his prompt action in the matter, and to the officers detailed, for their courtesy and vigilance in preventing anything contrary to law and good order.

Your Committee received valuable aid and assistance in all their labors from the Superintendent, W. P. Stout. We believe that to his untiring labors is due the great success of our Country Exhibits, which, we think, were the finest ever displayed in our State. We doubt whether such a varied exhibit of the products of the soil could be made by any other State in the Union.

We also desire to say that Mr. Tweedale, the trusted Janitor of the Pavilion, has done his duty faithfully during the Fair. He had charge of the Day Watch, and also the care of the building. His knowledge and aid have been of great advantage to the Committee.

The following are the names of the employees, and their occupation at the Exhibition:

|                         |                                  |
|-------------------------|----------------------------------|
| Wm. P. Stout .....      | Superintendent                   |
| J. H. Culver .....      | Secretary                        |
| J. R. Martin .....      | Superintendent of Art Department |
| T. S. Tweedale .....    | Day Sergeant                     |
| Joseph Grant .....      | Night Sergeant                   |
| A. A. Hobe .....        | Ticket Office                    |
| Mrs. S. K. Allen .....  | Ticket Office                    |
| Henry Gille .....       | Ticket Office                    |
| Wm. Cameron .....       | Entry Clerk                      |
| W. J. Keightly .....    | Door Keeper                      |
| Scott Elder .....       | Door Keeper                      |
| Geo. W. Anderson .....  | Door Keeper                      |
| Charles E. Duncan ..... | Door Keeper                      |

|                            |               |
|----------------------------|---------------|
| E. P. Schell.....          | Door Keeper   |
| Daniel Harrington.....     | Engineer      |
| D. Courtney.....           | Elevator-man  |
| Terence Colligan .....     | Fireman       |
| Mrs. R. A. Street.....     | Ladies' Room  |
| Mrs. Wm. Mitchell.....     | Ladies' Room  |
| Mrs. A. E. Watson.....     | Hat Room      |
| Miss E. H. Brooks.....     | Hat Room      |
| Samuel Nehemiah Grubb..... | Gas Inspector |
| Charles P. Barbee.....     | Carpenter     |
| D. N. Hanna.....           | Art Gallery   |
| Harry L. Wilson.....       | Clerk         |
| Thomas Saywell.....        | Gardener      |
| J. H. Riddle.....          | Porter        |
| James Todd .....           | Day Watch     |
| J. W. Macdonald.....       | Day Watch     |
| H. C. Peiper.....          | Day Watch     |
| Samuel E. Kennard.....     | Day Watch     |
| Geo. C. Gaston.....        | Day Watch     |
| P. Gannon.....             | Day Watch     |
| William Tone .....         | Day Watch     |
| L. Rajotte.....            | Day Watch     |
| H. Brommer.....            | Day Watch     |
| J. G. Gay.....             | Day Watch     |
| H. Savage.....             | Night Watch   |
| J. K. Warren.....          | Night Watch   |
| M. A. Clarke.....          | Night Watch   |
| S. A. Withington.....      | Night Watch   |
| R. Waterman.....           | Night Watch   |
| S. E. Olmsted.....         | Night Watch   |
| George Warner.....         | Messenger     |

Respectfully submitted,

DAVID KERR,  
GEO. H. HOPPS,  
GEORGE SPAULDING,

*Committee.*

## MUSIC, DECORATION AND ART.

*To the President and Board of Trustees of the Mechanics' Institute :*

GENTLEMEN:—Your Committee on Music, Decoration and Art beg leave to report that after careful consideration of the merits and demerits of the various Bands proposing to furnish music for the Twenty-third Industrial Exposition they finally awarded the contract to the First Regiment Band, Chas. H. Cassasa, leader, and that they fully realized our expectations. Their rendition of true classical and popular music during the entire Fair drew



forth the applause and met the approbation of the visitors. The amount of their contract was \$6,500.

This year the entire length of the Art Gallery was occupied with pictures, 480 running feet of wall-space being filled. The quality of the exhibition, as an entirety, was above the average, the cruder work of the amateur having been excluded. The light, both in the north and south galleries, would be greatly benefitted by the placing of sky-lights in the roof similar to those now in the center galleries.

There was an entire change in the style and character of the decorations from former years. While lacking in brilliancy of color, they were effective, soft, graceful and harmonizing with the general tone of the building, the Counties of the State being represented by their names having been placed on panels around the face of the gallery.

Since the close of the Exhibition the streamers have been removed from the bridges, giving the Pavilion a fuller appearance for general rental purposes.

The items and amounts expended will be found in the Financial Report.

Yours respectfully,

GEO. H. HOPPS,  
A. W. SCOTT,  
IRWIN C. STUMP,  
*Committee.*

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## POWER AND MACHINERY.

*To the President and Board of Trustees of the Mechanics' Institute:*

GENTLEMEN—We found on investigation previous to the Fair that several needed repairs were necessary to the boilers and furnaces to fit them for proper use during the Exposition; and much more will be needed before the opening of another. In order to produce some change in the general appearance of the Machinery Hall we had the engines, pulleys and shafting painted. The change of the agricultural machinery to the new annex necessitated considerable alterations and additions to steam pipes, which formed a considerable portion of this year's expense.

The cost of fuel has not been so great as we expected. While the price paid per ton was  $38\frac{1}{2}$  per cent. greater than last year, the total expense was only  $28\frac{1}{2}$  per cent. A detailed list of the machine supplies and fittings accompanies this report, the same having been by the Engineer turned over to the Janitor.

In accordance with instructions from the Committee and under the supervision of the Gas Inspector of the building, we had all the gas and water-pipe in the Pavilion not needed for the Fair removed and the outlets stopped up. All the reflectors were cleaned and repaired, and new burners put in where the old ones were defective. Watch lights were put in the new annex and reflectors placed in the passage leading from the Machinery Department, as also one in the Ice Cream Booth in the Gallery. A new reflector sixty feet long was put in the Art Gallery under the supervision of the Building Committee. The usual amount of changes and work was done for exhibitors, for

which and for gas used a charge of \$101 was made and collected, the principal part, however, being for work.

Meyer, Marshall & Co., agents for the Pacific Coast of the Siemens-Lungren Company's Regenerative Gas Lamps, were desirous of exhibiting their qualities as compared with ordinary gas burners, and to that end were allowed to place them in the Polk-street nave of the Gallery. The Gas Inspector gives the following report:

"The twenty 16-foot Siemens-Lungren Lamps placed in the Gallery displaced 139 4-foot ordinary burners, at a total consumption of 30,300 feet of gas for twenty-nine nights, used from August 14th to September 15th inclusive. The average consumption per night of three and one-half hours was 1,044 24-29 cubic feet, at a cost of fifty-four cents per hour for the twenty lights. As far as can be found out from exhibitors occupying the space lighted by these lamps, the light was found to be quite an improvement over the 139 4-foot burners in use the first week of the Fair. The total amount of gas used during the thirty-five nights the Fair was open was 842,100 feet, an average of 24,060 per night. This is 8,156 feet less per night than was consumed last year, using 140 burners. The cost per night includes an average of 2,000 feet for watch lights and an average of 2,700 feet used by exhibitors and holders of privileges. The latter also used during the day nearly as much more."

Owing to the large displays made by counties of natural products, principally fruit, an unusual number of electric lights were required and placed in position when ordered by the Committee.

The Board Room during the Exhibition was lighted by the California Electric Light Company, with incandescent lamps, free of charge, doing away with the heat that heretofore has made the room so uncomfortable. Our thanks are due to the Company for their kindness.

At the close of the Exhibition the following schedule of material was reported on hand: 1,135 feet of pipe,  $\frac{1}{4}$  to 4; 8 reducers, assorted sizes; 89 ells, assorted sizes; 90 tees, assorted sizes; 141 tees (reducers), assorted sizes; 28 bushings, assorted sizes; 30 unions, assorted sizes; 254 sockets, assorted sizes; 50 nipples, assorted sizes; 34 caps, assorted sizes; 15 valves, assorted sizes; 18 cocks, assorted sizes; 8 bibbs, assorted sizes; 3 fountain jets, assorted sizes; several miscellaneous articles.

Some different arrangement from the present method should be used to light the front entrance when the electric light is dispensed with. Two large gas lamps should be placed in front of the main entrance. As renters of the Pavilion would pay for the gas used, we think it would be well to have the above or some other suggestion carried out at once.

An itemized account of the expenditures of our department will be found under the proper heading in the Financial Report of the Exhibition.

Respectfully yours,

JAS. SPIERS,  
S. J. HENDY,  
D. A. MACDONALD,

*Committee.*

## PRINTING AND ADVERTISING.

*To the President and Board of Trustees of the Mechanics' Institute:*

GENTLEMEN:—Your Committee on Printing and Advertising would respectfully report that all matters pertaining to their department have been closed, excepting the Report of the Exposition, which is now in the hands of the printer.

The usual advertisement (five squares, one month) was inserted in all the daily and most of the weekly papers in the city, about two weeks before the opening. On expiration another was inserted in the dailies to continue until September 15th. The latter added very materially to the cost of advertising. Yet we deem it money well expended, as, without question, the success of the Exposition in a large measure depended upon the notices and criticisms of the Press.

During the last Fair they were unusually numerous, full and commendatory, and the thanks of the Institute are due to the newspapers of this city for their earnest and helpful efforts to make the Twenty-third Exposition a success.

The sales from Art Catalogues exceeded the cost of printing by \$64, which is gratifying, as it has usually been a loss instead of profit.

The usual and customary amount of printing has been done for the uses of the Exposition, and an extraordinary amount for the use of the County Commissioners in distribution through the country.

We have no recommendations to make for future guidance, as the Committee in charge will be the best judge of what the time and circumstances require.

We had printed, and turned over to the Ticket Committee, taking a receipt therefor, the following tickets: 7,500 Double Season Tickets; 1,500 Single Season Tickets; 1,500 Childrens' Season Tickets; 1,500 Employees' Season Tickets; 250 Complimentary Season Tickets.

Respectfully submitted,

GEORGE SPAULDING,

JOHN MALLON,

S. J. HENDY,

*Committee.*

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## PRIVILEGES.

*To the President and Board of Trustees of the Mechanics' Institute:*

GENTLEMEN—Your Committee on Privileges, on presenting this their final report, are pleased to state that all matters pertaining to their department have been settled and adjusted satisfactorily. The number of privileges disposed of, names of the holders and amount received are as



|                                                         |            |
|---------------------------------------------------------|------------|
| Candy, Thain Brothers.....                              | \$ 860 00  |
| Canes, J. H. Kruger.....                                | 35 00      |
| Cider, M. Moore .....                                   | 155 00     |
| Combination Testing Machine, Schancke & Robertson.....  | 75 00      |
| Hand-Grip, Louis Glass.....                             | 50 00      |
| Ice Cream and Restaurant, Steuart, Palmer & Hansen..... | 1,756 00   |
| Key Rings, C. L. Crowley.....                           | 5 00       |
| Lifting Machine, Macondray, Sutro & Co.....             | 50 00      |
| Liniment (C. C.), W. H. Bone.....                       | 25 00      |
| Newspaper, J. G. Spaulding.....                         | 400 00     |
| Olive Oil, Ed. C. Goodrich.....                         | 25 00      |
| Perfumery, C. W. Coburn.....                            | 251 50     |
| Popcorn, Ciphers & Martin....                           | 447 00     |
| Quaker Medicine, Mrs. C. Bogle.....                     | 25 00      |
| Root Beer, Geo. C. Thompson.....                        | 127 50     |
| Scissor Etchings, Mrs. Ada Williamson.....              | 25 00      |
| Sea-shells and Mosses, Mrs. Elizabeth Combs.....        | 15 00      |
| Silhouettes, J. B. Slinn.....                           | 25 00      |
| Soda, Geo. C. Thompson .....                            | 1,027 50   |
| Waffles, Mrs. E. Peters.....                            | 75 00      |
| <hr/>                                                   |            |
| Total.....                                              | \$5,454 50 |

The various sums comprising the above amount were promptly paid, and we believe each holder made a good investment.

Several applications and offers for privileges were declined by the Committee, as we deemed them objectionable, and, if granted, feared they would prove annoying to our patrons.

There are several articles of refreshment which we think might with benefit be included in the list advertised, and we recommend that the next Committee carefully consider the matter.

The onerous duty of issuing employees' tickets was performed by your Committee to the best of their ability, and, we hope, to the satisfaction of the Board and exhibitors. The number given was much less than the number applied for, as many ask for passes who have not the slightest claim for the favor. The total number issued by the Treasurer on the orders signed by this Committee was 490. Of this number 45 were substitutions for tickets wrongly marked or exchanged, making the number in actual use 445.

JOHN MALLON,  
JAMES SPIERS,  
D. A. MACDONALD,  
*Committee.*

## RULES AND AWARDS.

*To the President and Board of Trustees:*

GENTLEMEN:—Your Committee on Rules and Awards are pleased to state that all matters in their Department have been satisfactorily settled or in progress. The latter refers to the report of the Exhibition, which is nearly ready.

The wishes and orders of the Board in regard to premiums we have endeavored to follow to the letter.

The general plan of not giving Medals and Diplomas, and the awarding of large cash premiums for displays of farm products, has been carried out, and, while it has given satisfaction to the county exhibitors, we find a general dissatisfaction among manufacturers and other exhibitors. We recommend that, at the next Fair, liberal yet judicious awards be made for machinery, inventions and manufactured products, and that the agent who may be employed to work up such matters give special attention to the same.

We further recommend, if premiums are given, that the premium list and the rules governing the same be carefully and guardedly considered before being announced, and, then, that the rules adopted be strictly and impartially carried out. Any ambiguity of terms or details are liable to lead to much vexation, extra labor and trouble to the Managers and Committees, and, possibly, ill will from exhibitors.

The matter is of great importance, and we believe, if it is decided at the Quarterly meeting on the 8th of December to hold another Fair, that a proper Committee should be appointed at the meeting of the 18th inst., to take such necessary and immediate action as may be proper.

The Inventors' and Institute medals were designed and made by the California Jewelry Company and have proved to be artistic and beautiful pieces of Workmanship.

The Certificates to be issued in accordance with Rule XV. are being prepared and are nearly ready for delivery.

Respectfully submitted,

COLUMBUS WATERHOUSE,

DAVID KERR,

IRWIN C. STUMP,

*Committee.*

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## SPECIAL EXHIBITS.

*To the President and Board of Trustees of the Mechanics' Institute:*

GENTLEMEN:—Your Committee on Special Exhibits beg leave to respectfully report, and sincerely regret that their labors were not as productive of novelties and extra attractions as they wished, or as the Board might have desired. At an early day we were led to believe, by general

indications, that the Exhibition would be very complete in detail, and there would be no available room for anything except the legitimate application for space. At the last moment we found that something was required, and were fortunate enough to secure the loan of an extra-fine billiard table, and the services of Prof. J. B. McCreery, who nightly astonished and delighted both professionals and those not familiar with the game of billiards by his wonderful manipulation of the ivory balls, overcoming in an easy and graceful manner seeming impossibilities. We think it was a pleasant and profitable feature of the Exposition.

Several applications were made for room to give special exhibitions and charge an extra admission thereto; but as all such attractions, where an additional charge is made, has been, and, we believe, justly, vetoed by the Board, no consideration was given to the applications.

There is no doubt that some extra attraction might be introduced that would be appropriate, and add largely to the receipts, and well repay the extra expense. We believe such course is pursued at the large Fairs in the Eastern States with success.

Respectfully submitted,

DAVID KERR,  
S. J. HENDY,  
JAMES SPIERS,

*Committee.*

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## TICKETS AND ADMISSIONS.

*To the President and Board of Directors of the Mechanics' Institute.*

GENTLEMEN:—In fulfillment of our duty as your Committee appointed to have charge of Tickets and Admissions during the late Industrial Exposition, we submit the following:

There were delivered by the Committee on Printing to this Committee, and by it to the Treasurer, the following designated tickets, viz: 7,500 Double Season Tickets, 1,500 Single Season Tickets, 1,500 Children's Season Tickets, 1,500 Employee's Season Tickets.

There were also delivered to the President a number of complimentary tickets which were presented by him in the name of the Institute to its ex-officers and such other friends of the Association as are entitled to the favor on account of past services.

The Chairman of this Committee also distributed to gentlemen connected with the press of this city and State, to jurors and exhibitors of the products of the several counties of our State, a number of double and single season tickets, the name of each person to whom the same were presented being duly recorded in a book opened for that purpose, and is herewith handed you for future reference.



In reference to the single admission tickets which are remaining on hand we beg to state that, owing to their worn and soiled condition, we recommend that they be destroyed, and that before the opening of the next Exposition a new series be prepared for use.

It affords us pleasure to present the fact that the key adopted during the late Exposition for the detection of such persons as might attempt to pass the doorkeepers upon tickets upon which they were not rightfully entitled to enter, was far simpler than any used at preceding expositions, and your committee are assured that very few persons entered fraudulently.

We deem it proper to state that during the first week succeeding the opening of the Exposition certain changes among the doorkeepers were deemed advisable; and these having been made, this important service was thereafter conducted, as we believe, to the credit of the Institute and the satisfaction of those attending the Exposition.

Following the action of preceding Committees, and believing it to be within the province of our duty, we recommend that the sum of seventy-five (\$75) dollars be appropriated and paid to Mr. Tweedale as an extra compensation, and in recognition of his services as Sergeant during the continuance of the Exposition.

Your Committee refer you for an account of sales of Tickets to the report submitted by your Treasurer, and we beg to state that a meeting of this Committee has been had with him, at which the tickets were duly counted and everything found to be correct.

Respectfully submitted,

J. S. HENDY,  
JOHN MALLON,  
A. W. SCOTT,  
*Committee.*











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